

District I  
1625 N French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

7212

Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

**Instructions:** Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

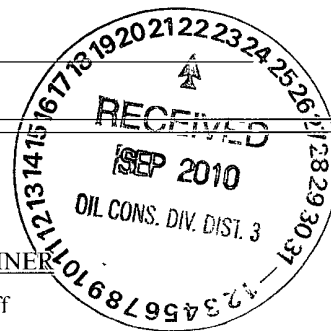
Operator <u>WILLIAMS PRODUCTION COMPANY, LLC</u>		OGRID # <u>120782</u>
Address <u>PO Box 640</u> <u>Aztec, NM 87410</u>		
Facility or well name: <u>ROSA UNIT #020C</u>		
API Number. <u>3003926221</u>		OCD Permit Number _____
Section <u>14J</u>	Township <u>31N</u>	Range <u>06W</u> County <u>RIO ARriba</u>
Latitude <u>36.897320000000001</u>	Longitude <u>107.43129</u>	NAD <u>1983</u> Surface Owner <u>FEDERAL</u>

2	
<input type="checkbox"/> <b>Pit:</b> Subsection F or G of 19 15 17 11 NMAC	
Temporary <input type="checkbox"/> Drilling <input type="checkbox"/> Workover	
<input type="checkbox"/> Permanent <input type="checkbox"/> Emergency <input type="checkbox"/> Cavitation <input type="checkbox"/> P&A	
<input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____	
<input type="checkbox"/> String-Reinforced	
Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____ Volume. _____ bbl Dimensions L _____ x W _____ x D _____	

3.	
<input type="checkbox"/> <b>Closed-loop System:</b> Subsection H of 19 15 17 11 NMAC	
Type of Operation <input type="checkbox"/> P&A <input type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)	
<input type="checkbox"/> Drying Pad <input type="checkbox"/> Above Ground Steel Tanks <input type="checkbox"/> Haul-off Bins <input type="checkbox"/> Other _____	
<input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____	
Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____	

4	
<input checked="" type="checkbox"/> <b>Below-grade tank:</b> Subsection I of 19 15 17 11 NMAC	
Volume: <u>120</u> bbl	Type of fluid <u>PRODUCED WATER</u>
Tank Construction material <u>FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER</u>	
<input checked="" type="checkbox"/> Secondary containment with leak detection <input type="checkbox"/> Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
<input type="checkbox"/> Visible sidewalls and liner <input type="checkbox"/> Visible sidewalls only <input type="checkbox"/> Other _____	
Liner type Thickness _____ mil <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____	

5	
<input type="checkbox"/> <b>Alternative Method:</b>	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	



43

6

**Fencing:** Subsection D of 19 15 17 11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☐ Alternate Please specify \_\_\_\_\_

7

**Netting:** Subsection E of 19 15 17 11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☒ Screen ☐ Netting ☐ Other \_\_\_\_\_
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8

**Signs:** Subsection C of 19 15 17 11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19 15 3 103 NMAC

9

**Administrative Approvals and Exceptions:**

Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance

**Please check a box if one or more of the following is requested, if not leave blank:**

- ☒ Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval
- ☐ Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

10

**Siting Criteria (regarding permitting):** 19 15 17 10 NMAC

**Instructions:** The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application ( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> ) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application ( <i>Applies to permanent pits</i> ) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

11

**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15 17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17.9 NMAC  
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9 NMAC  
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC  
☐ Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC  
☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15 17.13 NMAC  
☐ Previously Approved Design (attach copy of design) API Number \_\_\_\_\_ or Permit Number \_\_\_\_\_

12

**Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15 17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15 17.9  
☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15 17.10 NMAC  
☐ Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC  
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15 17.13 NMAC  
☐ Previously Approved Design (attach copy of design) API Number \_\_\_\_\_  
☐ Previously Approved Operating and Maintenance Plan API Number \_\_\_\_\_ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15 17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15 17.9 NMAC  
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC  
☐ Climatological Factors Assessment  
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Leak Detection Design - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Quality Control/Quality Assurance Construction and Installation Plan  
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC  
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15 17.11 NMAC  
☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
☐ Emergency Response Plan  
☐ Oil Field Waste Stream Characterization  
☐ Monitoring and Inspection Plan  
☐ Erosion Control Plan  
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15 17.13 NMAC

14

**Proposed Closure:** 19.15 17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Closed-loop System  
☐ Alternative  
 Proposed Closure Method ☒ Waste Excavation and Removal  
☐ Waste Removal (Closed-loop systems only)  
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)  
☐ In-place Burial ☐ On-site Trench Burial  
☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

**Waste Excavation and Removal Closure Plan Checklist:** (19.15 17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC  
☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC  
☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  
☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15 17.13 NMAC  
☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17.13 NMAC  
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17.13 NMAC

**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19 15 17 13 D NMAC)

**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

*Required for impacted areas which will not be used for future service and operations*

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

**Siting Criteria (regarding on-site closure methods only):** 19 15 17 10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**On-Site Closure Plan Checklist:** (19 15 17 13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
- ☒ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☒ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC
- ☒ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☒ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☒ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☒ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17.13 NMAC

19

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief

Name (Print) \_\_\_\_\_

Title: \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

e-mail address \_\_\_\_\_

Telephone \_\_\_\_\_

20

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Approval Date: 9/01/2011

Title: Compliance Officer OCD Permit Number: \_\_\_\_\_

21

**Closure Report (required within 60 days of closure completion):** Subsection K of 19 15 17 13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: 1-14-2010

22

**Closure Method:**

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain

23

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name San Juan Regional Landfill Disposal Facility Permit Number NMED SWM-052426

Disposal Facility Name \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

*Required for impacted areas which will not be used for future service and operations*

- ☐ Site Reclamation (Photo Documentation)  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique

24

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Proof of Closure Notice (surface owner and division)  
☐ Proof of Deed Notice (required for on-site closure)  
☐ Plot Plan (for on-site closures and temporary pits)  
☐ Confirmation Sampling Analytical Results (if applicable)  
☐ Waste Material Sampling Analytical Results (required for on-site closure)  
☐ Disposal Facility Name and Permit Number  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique  
☐ Site Reclamation (Photo Documentation)

On-site Closure Location Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD ☐ 1927 ☐ 1983

25

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan

Name (Print) Michael K. Lane Title Sr EH&S Specialist

Signature [Signature] Date 9/21/10

e-mail address: myke.lane@williams.com Telephone 505-634-4219

**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Below-Grade Tank Removal  
Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

**Closure Conditions and Timing:**

Pursuant to 19.15.17.13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be schedule as specified in 19.15.17.12 (A)(5) NMAC.
- WPX chooses to take the BGT out-of-service due to operational needs. Closure under these conditions will be closed within 60 days of cessation of the BGT's operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19.15.17.11.1(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

**General Plan Requirements:**

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current surface owner of record. The surface owner of record will be notified of the intent to closure the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.
2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)
3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank, ...). The well will be temporarily shutin until the rerouting is completed.
4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD # 1 (Order: SWD-916, API: 30-039-27055), Rosa Unit # 94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD # 001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD # 001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).
5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).
6. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as

solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D of 19.15.9.712 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

7. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.
8. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(E)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Table 1: Closure Criteria for BGTs

Components	Testing Methods	Closure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 418.1 <sup>(1)</sup>	100
Chlorides	EPA SW-846 Method 300.1 <sup>(1)</sup>	250 <sup>(2)</sup>

<sup>(1)</sup> Method modified for solid waste.

<sup>(2)</sup> If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

9. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.
10. Upon completion of the tank removal, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be recontoured to match the native grade and prevent ponding.
11. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. *Note: If a surface owner agreement requires reseeding or other surface restoration that do not meet the revegetation requirements of 19.15.17.13.1 NMAC then WPX will submit the proposed alternative with written documentation that the surface owner agrees to the alternative, for Division approval.*
12. For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

#### Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Site Diagram with coordinates
- Available Inspection reports
- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation



Exploration & Production  
PO Box 640  
Aztec NM 81137  
505/634 4219  
505/634 4214 Fax

March 10, 2009

Mr. Mark Kelly  
Bureau of Land Management  
Farmington Field Office  
1235 La Plata Hwy  
Farmington, NM 87401

Sent via Certified Mail

RE Notification of Production Pit Closure  
Rule 19 15 17 13 NMAC  
Production Pits associated Natural Gas Development  
Operated by Williams Production Co, LLC

Pursuant to Rule 19 15 17 13 NMAC, this correspondence is to notify the Bureau of Land Management, Farmington Field Office of Williams Production LLC's (Williams') intent to clean close all production pits on the attached list of wells operated with the District in San Juan County and Rio Arriba County, New Mexico. Closure will follow the plan included with this correspondence.

Thank you for your consideration. If there are any questions or additional information is requested, please contact me at (505) 634-4209.

Respectfully submitted,

A handwritten signature in cursive script that reads "Holly C. Perkins".

Holly C. Perkins  
EH&S Specialist

Encl Williams Production Pit Inventory List (Federal wells)  
San Juan Basin - New Mexico Assets Below-Grade Tank Closure Plan

cc Environmental File



**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Below Grade Tank Removal  
Closure Plan

In accordance with Rule 19-15-17-13 NMAC, the following plan describes the general closure requirements of below grade tanks (BGT) on Williams Production Co., LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19-15-17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

**Closure Conditions and Timing:**

Pursuant to 19-15-17-13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be scheduled as specified in 19-15-17-12 (A)(5) NMAC.
- WPX chooses to take the BGT out of service due to operational needs. Closure under these conditions will be closed within 60 days of cessation of the BGT's operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19-15-17-11.1(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

**General Plan Requirements:**

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current surface owner of record. The surface owner of record will be notified of the intent to close the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.
2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operator's Name (WPX)
  - b. Well Name and API Number
  - c. Location (USIR)
3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank, etc.). The well will be temporarily shut in until the rerouting is completed.
4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCDD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order SWD-916, API 30-039-27055), Rosa Unit #94 (Order SWD-3RP-10030, API 30-039-23035), Jillson Fed. SWD #001 (Order R10168/R10168A, API 30-039-25465), Middle Mesa SWD #001 (Order SWD 3500, API 30-045-27004) and/or Basin Disposal (Permit NM-01-0005).

Solids and sludges will be shoveled and/or vacuumed out for disposal at Envirotech (Permit Number NM-01-0001).

5. WPX will obtain prior approval from NMOCDD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will

be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D of 19.15.9-12 NMAC. Disposal will be at a licensed disposal facility presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM 052426.

7. Any equipment associated with the BGI that is no longer required for some other purpose following the closure will be removed from the location.
8. Following removal of the tank and any liner material, a five point composite sample will be taken of the excavation and tested per 19.15.17.13(F)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Table 1. Closure Criteria for BGIs

Components	Testing Methods	Closure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
IPH	EPA SW-846 Method 418.1 <sup>(1)</sup>	100
Chlorides	EPA SW-846 Method 300.1 <sup>(1)</sup>	250 <sup>(2)</sup>

<sup>(1)</sup> Method modified for solid waste

<sup>(2)</sup> If background concentration of Chlorides greater than 250 mg/l g, then higher concentration will be used for closure

9. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.
10. Upon completion of the tank removal, the excavation will be backfilled with non waste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and prevent ponding.
11. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. Note: If a surface owner agreement requires reseedling or other surface restoration that do not meet re-vegetation requirements of 19.15.17.13.1 NMAC, then WPX will submit the proposed alternative with written documentation that the surface owner agrees to the alternative for Division approval.
12. For those portions of the former pit area required for production activities, reseedling will be done at well abandonment, and following the procedure noted above.

### Closure Report

All closure activities will include proper documentation and will be submitted to OCE within 60 days of the BGI closure on a Closure Report using Division Form C-144. The Report will include the following:

- Front of Closure Notice letter to Client
- Confirmation Sampling Analytic or Reson
- Backfilling & Cover material
- Disposal Facility Name(s) and Permit Number(s)
- Site Diagram with coordinates
- Application Rate & Seeding technique
- Available Inspection report
- Photo Documentation of Backfilling

WELLS w/FEDERAL SURF MGT	API	FM1	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
COX CANYON UNIT #001	3004511397	BL ANCO MV	16N	32N	11W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #001A	3004522086	BL ANCO MV	16C	32N	11W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20 mil
COX CANYON UNIT #001B	3004530791	BL ANCO MV	16I	32N	11W	BG1	HDPE SECONDARY LINER
COX CANYON UNIT #001C	3004532023	BL ANCO MV	16E	32N	11W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #003	3004511495	BL ANCO MV	9I	32N	11W	BG1	HDPE SECONDARY LINER
COX CANYON UNIT #003A	3004522088	BL ANCO MV	9P	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #003B	3004530871	BL ANCO MV	9J	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #004	3004511368	BL ANCO MV	21A	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #004A	3004522093	BL ANCO MV	21P	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #004B	3004532186	BL ANCO MV	21I	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #005	3004511326	BL ANCO MV	21K	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #005A	3004522094	BL ANCO MV	21D	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #005B	3004532142	BASIN DK / BL ANCO MV	21N	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #005C	3004533493	BL ANCO MV	21F	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #006	3004511463	BL ANCO MV	16A	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #006A	3004522095	BL ANCO MV	16I	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #006B	3004532693	BL ANCO MV	16B	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #006C	3004532733	BL ANCO MV	16O	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #007	3004511455	BL ANCO MV	17G	32N	11W	FGP	DBL WALL STEEL
COX CANYON UNIT #007A	3004522091	BL ANCO MV	17O	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #007C	3004533018	BASIN DK	17K	32N	11W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #008	3004511492	BL ANCO MV	8I	32N	11W	BG1	HDPE SECONDARY LINER
COX CANYON UNIT #008A	3004522096	BL ANCO MV	17H	32N	11W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #008B	3004532080	BL ANCO MV	8P	32N	11W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #008C	3004531187	BL ANCO MV	17P	32N	11W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #009A OM	3004522092	BL ANCO MV	20D	32N	11W	BG1	HDPE SECONDARY LINER
COX CANYON UNIT #009B OM	3004533926	BASIN DK / BL ANCO MV	20B	32N	11W	BG1	DBL WALL STEEL
COX CANYON UNIT #009C	3003933851	BASIN DK / BL ANCO MV	20F	32N	11W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
COX CANYON UNIT #013	3004521489	BL ANCO PC	20A	32N	11W	BG1	HDPE SECONDARY LINER

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
COX CANYON UNIT #023 COM	3004522537	BL ANCO PC	17C	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
COX CANYON UNIT #025	3004522572	BL ANCO PC	9O	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
COX CANYON UNIT #200	3004527878	BASIN FIC	9I	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
COX CANYON UNIT #200A	3004532126	BASIN FIC	9O	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
COX CANYON UNIT #203	3004527872	BASIN FIC	17A	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
MADDOX #001	3004511487	BL ANCO MV	10N	32N	11W	BGT	DBL WALL STEEL
MADDOX #001A	3004523539	BL ANCO MV	10P	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #001	3004511309	BL ANCO MV BASIN DK /	20O	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #001B COM	3004532024	BL ANCO MV BASIN DK /	20J	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #001C COM	3004532804	BL ANCO MV	20I	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #002 COM	3004511380	BL ANCO MV	19A	32N	11W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
NM 32-11 #002A COM	3004529017	BL ANCO MV	19O	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #002B COM	3004532670	BL ANCO MV	19I	32N	11W	BGT	DBL WALL STEEL
NM 32-11 #002C COM	3004533077	BL ANCO MV	19G	32N	11W	BGT	DBL WALL STEEL
ROSA UNIT #001 SWD	3003927055	SWD	23I	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #001E	3003925411	BASIN DK / BL ANCO MV	11P	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #005A	3003925407	BL ANCO MV / ROSA PC	26P	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #005B	3003926927	BASIN DK / BL ANCO MV	26B	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #005Y	3003926078	BL ANCO MV	26H	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #008	3003907944	BL ANCO MV / ROSA PC	26M	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #008	3003907944	BL ANCO MV / ROSA PC	26M	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #008A	3003925430	BL ANCO MV / ROSA PC	26D	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #008C	3003926944	BL ANCO MV	26N	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #009	3003907975	BL ANCO MV BASIN DK /	11K	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #009A	3003925584	BL ANCO MV	11C	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #009B	3003927042	BL ANCO MV	11E	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #010B	3003926556	BL ANCO MV	13N	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #010C	3003926918	BL ANCO MV	13N	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #010C	3003926556	BL ANCO MV	13N	31N	06W	BGT	DBL WALL STEEL

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #012A	3003925900	BLANCO MV / ROSA PC	15J	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #012B	3003926555	BLANCO MV	15P	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #012C	3003929486	BLANCO MV	15A	31N	06W	SG1	SINGLE WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #013	3003907936	BLANCO MV	31G	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #013A	3003926298	BLANCO MV BASIN DK /	31F	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #013B COM	3003929834	BLANCO MV	31A	31N	05W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #014	3003907958	BLANCO MV	23B	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #014A	3003926280	BLANCO MV BASIN DK /	23P	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #014C	3003930132	BLANCO MV	23H	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #015	3003907946	BLANCO MV	29H	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #016	3003907963	BLANCO MV	14N	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #016A	3003925496	BLANCO MV	14C	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #016B	3003926218	BLANCO MV	14M	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #017A	3003926272	BLANCO MV BASIN DK /	20O	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #017B	3003926971	BLANCO MV	20J	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #018	3003907960	ROSA PC BLANCO MV /	22H	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #018A	3003925436	ROSA PC	22P	31N	06W	SG1	DBL WALL STEEL
ROSA UNIT #018B	3003927052	BLANCO MV	22O	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #019	3003907955	BLANCO MV	24K	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #019B	3003926560	BLANCO MV	24L	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #019C	3003929625	BLANCO MV	24D	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #019C	3003929625	BLANCO MV	24D	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #020	3003907969	BLANCO MV	14G	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #020A	3003925495	BLANCO MV	14O	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #020B	3003926220	BLANCO MV	14A	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #020C	3003926221	BLANCO MV	14J	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #021A	3003926121	BLANCO MV	23C	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #021B	3003926554	BLANCO MV	23K	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #021	3003907971	BLANCO MV	18A	31N	05W	BG1	HDPE SECONDARY LINER

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #022A	3003926390	BLANCO MV	18C	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #023	3003907942	BLANCO MV	29M	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #023B	3003926553	BLANCO MV	29E	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #023C	3003927609	BLANCO MV	29L	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #024	3003907933	BLANCO MV	32M	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #024A	3003925568	BLANCO MV	32E	31N	05W	SG1	DBL WALL STEEL
ROSA UNIT #024B	3003926630	BLANCO MV	32N	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #024C	3003926968	BLANCO MV	32C	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #026A	3003925580	BLANCO MV	32O	31N	05W	SG1	DBL WALL STEEL
ROSA UNIT #026B	3003926788	BASIN DK	32G	31N	05W	SG1	DBL WALL STEEL
ROSA UNIT #029	3004511136	BLANCO MV	32H	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #029B	3004530709	BLANCO MV	32B	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #029M	3004529584	BLANCO MV	32I	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #030 COM	3003925570	BASIN DK / BLANCO MV	12O	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #030A	3003926068	BLANCO MV	12M	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #030B	3003926601	BLANCO MV	12N	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #030C	3003929842	BLANCO MV	12P	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #031	3003926279	BLANCO MV	17C	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #031A	3003926346	BLANCO MV	17I	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #031B	3003926579	BLANCO MV	17D	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #031C	3003926578	BLANCO MV	17N	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
OSA UNIT #032	3003925389	BLANCO MV / ROSA PC	21H	31N	06W	BG1	DBL WALL STEEL
OSA UNIT #032A	3003925417	BLANCO MV / ROSA PC	21F	31N	06W	BG1	DBL WALL STEEL
OSA UNIT #032B	3003926771	BASIN DK / BLANCO MV	21G	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
OSA UNIT #032C	3003927240	BASIN DK / BLANCO MV	21F	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
OSA UNIT #034	3003907984	BLANCO MV	36B	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
OSA UNIT #034A	3003926119	BLANCO MV	36I	32N	06W	BG1	DBL WALL STEEL
OSA UNIT #034A	3003926119	BLANCO MV	36I	32N	06W	SG1	DBL WALL STEEL
OSA UNIT #034E	3003926629	BLANCO MV	36J	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER

WELLS w/FEDERAL SURF MG1	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #034C	3003926969	BI ANCO MV	36H	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #035X	3004510996	BI ANCO MV	5K	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #036	3003907977	BI ANCO MV	11H	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #036C	3003930182	BI ANCO MV	11G	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #041	3003907981	BI ANCO MV BASIN DK /	5K	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #041B	3003927014	BI ANCO MV	6P	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #044	3003925873	BI ANCO MV	35K	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #044A	3003926161	BI ANCO MV	35E	32N	06W	SG1	SINGLE WALL STEEL
ROSA UNIT #044A	3003926161	BI ANCO MV	35E	32N	06W	SG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #044B	3003926685	BI ANCO MV	35C	32N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #045	3003923013	BI ANCO MV BASIN DK /	9M	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #046A	3003926986	BI ANCO MV	8O	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #051	3003920289	BASIN DK	23C	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #053	3003920293	BASIN DK	8B	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #055	3003920923	BASIN DK	34I	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #059 DK	3003923270	BASIN DK	25N	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #059 GL	3003923270	UNDES GL	25N	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #060	3004529798	BLANCO MV	4L	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #064	3003921703	BASIN DK	29A	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #064	3003921703	BASIN DK	29A	31N	05W	SG1	DBL WALL STEEL
ROSA UNIT #064M	3003925563	BLANCO MV BASIN DK /	29F	31N	05W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #065	3003921702	BASIN DK	17A	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #066	3003921758	BASIN DK BASIN DK /	13L	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #066M	3003925747	BLANCO MV	13F	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #072	3003925509	BLANCO MV	6I	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #072A	3003925795	BI ANCO MV	6K	31N	05W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #075	3004529895	BLANCO MV	10L	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #075A	3004529854	BLANCO MV DK/UNDES	4O	31N	06W	BG1	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #075	3003922538	GL/BLANCO	33L	31N	05W	BG1	HDPE SECONDARY LINER

WELL'S w/FEDERAL SURF MGT	API	FM1	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #079	3003922539	BASIN DK / BLANCO MV	22K	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #079	3003922539	BASIN DK / BLANCO MV	22K	31N	06W	SGT	DBL WALL STEEL
ROSA UNIT #079A	3003925412	BLANCO MV / ROSA PC	22F	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #079B	3003926920	BASIN DK / BLANCO MV	22C	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #079C	3003929902	BLANCO MV	31P	31N	05W	BGT	DBL WALL STEEL
ROSA UNIT #080	3003922537	BASIN DK / BLANCO MV	8K	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #080A	3003926413	BLANCO MV	8F	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #085	3003922778	BASIN DK	20A	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #085	3003922778	BLANCO MV	20A	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #085A	3003926314	BLANCO MV	20C	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #085B	3003930130	BLANCO MV	20D	31N	05W	BGT	DBL WALL STEEL
ROSA UNIT #086	3003922766	UNDES GI	12W	31N	04W	SGT	SINGLE WALL STEEL
ROSA UNIT #088	3004525140	BLANCO MV / ROSA PC	8F	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #089	3003922782	BLANCO MV	34A	32N	06W	BGT	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #089A	3003925512	BLANCO MV	34C	32N	06W	BGT	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #089B	3003926851	BLANCO MV	34I	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #089C	3003926674	BLANCO MV	34G	32N	06W	SGT	SINGLE WALL STEEL
ROSA UNIT #090 COM	3004525370	BLANCO MV	33G	32N	06W	BGT	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #090A COM	3004529259	BLANCO MV	33G	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #091	3003922780	BLANCO MV	35H	32N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #091A	3003925790	BLANCO MV	35O	32N	06W	SGT	DBL WALL STEEL
ROSA UNIT #091B	3003926684	BLANCO MV	35P	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #091C	3003926991	BLANCO MV	35G	32N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #098	3003923265	BASIN DK / GI	23L	31N	06W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #100B	3003929547	BASIN DK / BLANCO MV	21C	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #100C	3003929851	BLANCO MV	21K	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #100E	3003925135	BLANCO MV / ROSA PC	21I	31N	06W	SGT	SINGLE WALL STEEL
ROSA UNIT #101M	3003925577	BLANCO MV	24F	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #10L	3003923506	BASIN DK / GL	7G	31N	05W	BGT	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER



WELL S w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #119	3003925143	BASIN DK	18N	31N	05W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #125	3003925144	BI ANCO MV	13B	31N	06W	BGT	HDPE SECONDARY LINER
ROSA UNIT #125C	3003929843	BI ANCO MV BASIN DK /	13G	31N	06W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #125E	3003925526	BI ANCO MV	13J	31N	06W	BGT	HDPE SECONDARY LINER
ROSA UNIT #129	3003926304	BI ANCO MV	34E	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #129A	3003926297	BI ANCO MV	34K	32N	06W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #137	3003925410	BI ANCO MV BLANCO MV /	31K	31N	05W	BGT	HDPE SECONDARY LINER
ROSA UNIT #137A	3003926129	ROSA PC	31I	31N	05W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #137B	3003927002	BI ANCO MV BLANCO MV /	31P	31N	05W	BGT	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #138	3004529147	ROSA PC BI ANCO MV /	17I	31N	06W	BGT	HDPE SECONDARY LINER
ROSA UNIT #138A	3004529134	ROSA PC	17H	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #138B	3004532168	BI ANCO MV	17H	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #139A	3004529600	BLANCO MV	17M	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #140	3003925435	ROSA PC	22K	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #144	3003925421	ROSA PC	26A	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #145C	3004533086	BLANCO MV	16F	31N	06W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #146A	3003925513	BI ANCO MV	28N	31N	05W	BGT	HDPE SECONDARY LINER
ROSA UNIT #146C	3003930187	BLANCO MV	28B	31N	05W	BGT	DBL WALL STEEL
ROSA UNIT #148	3003925493	BASIN DK	20	31N	06W	BGT	DBL WALL STEEL
ROSA UNIT #148A	3003925776	BLANCO MV	2N	31N	06W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #148B	3003926985	BI ANCO MV	2P	31N	06W	BGT	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #149	3003925501	BI ANCO MV	12G	31N	06W	BGT	HDPE SECONDARY LINER
ROSA UNIT #149A	3003925807	BLANCO MV BASIN DK /	12F	31N	06W	BGT	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #149B	3003926599	BLANCO MV	12E	31N	06W	BGT	HDPE SECONDARY LINER FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #150	3004529229	BLANCO MV	32F	32N	06W	BGT	HDPE SECONDARY LINER
ROSA UNIT #150A	3004529592	BLANCO MV BASIN DK /	32M	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #150B	3004530874	BLANCO MV	32D	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #150C	3004532157	BLANCO MV	32K	32N	06W	BGT	DBL WALL STEEL
ROSA UNIT #151	3004529267	BLANCO MV	33C	32N	06W	BGT	DBL WALL STEEL

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #151A	3004529631	BI ANCO MV	33I	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #151C	3004532196	BI ANCO MV	33N	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #152	3003925494	BI ANCO MV	36E	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #152A	3003925695	BI ANCO MV	36N	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #152B	3003926631	BI ANCO MV	36C	32N	06W	BG1	DBL WALL STEEL
ROSA UNIT #152C	3003927635	BI ANCO MV	36I	32N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #153	3003925524	BI ANCO MV	17O	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #153A	3003926329	BI ANCO MV	17A	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #153B	3003927603	BI ANCO MV	17I	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #154	3003925893	BI ANCO MV	7N	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #154A	3003926274	BI ANCO MV	7P	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #156	3004529661	BLANCO MV	9A	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #156A	3004529640	BI ANCO MV	9I	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #159 COM	3003925583	BASIN DK / BLANCO MV	19O	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #159A	3003926273	BI ANCO MV	19N	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #15C	3003930111	BI ANCO MV	29G	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #160	3003925890	BI ANCO MV / ROSA PC	25O	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #160A	3003925818	BI ANCO MV	25N	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #160B	3003926962	BASIN DK / BLANCO MV	25I	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #160C	3003929778	BI ANCO MV	25J	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #162	3003926069	BI ANCO MV	30K	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #162B	3003929845	BI ANCO MV	30P	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #163	3003926345	BLANCO MV	24G	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #163A	3003926336	BI ANCO MV	24O	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #163B	3003929921	BLANCO MV	24B	31N	06W	SG1	DBL WALL STEEL
ROSA UNIT #163C	3003929611	BLANCO MV	24J	31N	06W	SG1	SINGLE WALL STEEL
ROSA UNIT #164	3003926151	BASIN DK / BLANCO MV	1J	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #164A	3003926080	BLANCO MV	1J	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #164E	3003927242	BASIN DK / BLANCO MV	1J	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #165	3003926070	BI ANCO MV / ROSA PC	25F	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #165A	3003926150	BI ANCO MV BASIN DK /	25B	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #165B	3003926557	BI ANCO MV BASIN DK /	25L	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #165C	3003926961	BI ANCO MV	25G	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20 mil
ROSA UNIT #166	3003926275	BI ANCO MV	30A	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #166A	3003926282	BI ANCO MV	30F	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #167A	3004529886	BLANCO MV	8A	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #169	3003926130	BI ANCO MV	3J	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #169A	3003926149	BLANCO MV	3J	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #169C	3003927717	BI ANCO MV	2M	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #170	3003925851	BI ANCO MV	21N	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #171	3003926286	BLANCO MV	7G	31N	05W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #171A	3003926389	BI ANCO MV	7G	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #171B	3003927013	BI ANCO MV	6P	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #180	3004529898	BLANCO MV	9N	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #180B	3004533134	BLANCO MV	9I	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #180C	3004533191	BI ANCO MV	9E	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #181	3003926463	BLANCO MV	11K	31N	06W	BG1	DBL WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #181A	3003926312	BLANCO MV	15A	31N	06W	BG1	HDPE SECONDARY LINER
ROSA UNIT #181C (shared /169C)	3003927714	BLANCO MV	2M	31N	06W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #182	3003926283	BI ANCO MV	18N	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20 mil HDPE SECONDARY LINER
ROSA UNIT #182A	3003926285	BLANCO MV	18P	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #182C	3003930180	BLANCO MV	18P	31N	05W	SG1	SINGLE WALL STEEL FIBERGLASS TANK w/BANDED 20-mil
ROSA UNIT #183	3003926387	BI ANCO MV	19G	31N	05W	BG1	HDPE SECONDARY LINER
ROSA UNIT #183A	3003926386	BI ANCO MV	19F	31N	05W	BG1	FIBERGLASS TANK w/BANDED 20-mil HDPE SECONDARY LINER
ROSA UNIT #183B	3003930087	BI ANCO MV	19B	31N	05W	BG1	DBL WALL STEEL
ROSA UNIT #185B	3004532734	BASIN DK / BLANCO MV	16F	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #185C	3004534484	BLANCO MV	16F	31N	06W	BG1	DBL WALL STEEL
ROSA UNIT #185	3003930186	BLANCO MV	21G	31N	05W	BG1	DBL WALL STEEL

WELLS w/FEDERAL SURF MGT	API	FMT	SEC	TWN	RNG	PIT TYPE	CONSTRUCTION MATERIAL
ROSA UNIT #231	3003924444	BASIN F1C	31N	31N	05W	SG1	SINGLE WALL STEEL
ROSA UNIT #335A	3003930222	BASIN F1C	05J	31N	05W	SG1	SINGLE WALL STEEL

## Fields, Vanessa

---

**From:** Meador, Tasha  
**Sent:** Monday, August 16, 2010 2:10 PM  
**To:** Fields, Vanessa  
**Subject:** FW: Requests for Review of Pit Closure Plan - Rosa Unit 20C

### Tasha Meador

EH&S Coordinator  
Williams Exploration & Production  
721 S Main Aztec, NM  
Office: 505-634-4200  
Direct: 505-634-4241  
Fax: 505-634-4205  
tasha.meador@williams.com

---

**From:** Lane, Myke  
**Sent:** Thursday, January 14, 2010 1:36 PM  
**To:** Jones, Brad A., EMNRD  
**Cc:** Powell, Brandon, EMNRD; Meador, Tasha ; Basye, Matt  
**Subject:** Requests for Review of Pit Closure Plan - Rosa Unit 20C

Brad:

We need to take the following below grade tanks out of service, and we would like to close this existing BGTs. We request your review to allow closure.

WELLSITE	API	FMT	SEC	TWN	RNG
Rosa #020C	3003926221	BLANCO MV	14J	31N	06W

Please contact me if there are any problems or you request additional information. Thanks for your consideration.

Michael K. (Myke) Lane, PE  
EH&S Team Leader - San Juan Basin Operations  
721 S. Main/PO Box 640, Aztec, NM 87410  
(505) 634-4219(off); -4205(fax); 330-3198(cell)

*"The problems we face cannot be resolved at the same level of thinking as that which gave rise to them!"---shared with me by Brent Hale*

District I  
1625 N French Dr , Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	WILLIAMS PRODUCTION, LLC	Contact	Myke Lane
Address	P.O BOX 640, AZTEC, NM 87410	Telephone No	(505) 634-4219
Facility Name	Rosa Unit # 020C	Facility Type	Well Site

Surface Owner: Federal	Mineral Owner.	Lease No.
------------------------	----------------	-----------

### LOCATION OF RELEASE

Unit Letter J	Section 14	Township 31 N	Range 06 W	Feet from the	North/South Line	Feet from the	East/West Line	County
------------------	---------------	------------------	---------------	---------------	------------------	---------------	----------------	--------

Latitude 36.897320000000001 Longitude -107 43129

### NATURE OF RELEASE


Type of Release No Release Occured	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully \* N/A

Describe Cause of Problem and Remedial Action Taken \*  
No action required

Describe Area Affected and Cleanup Action Taken \*  
N/A

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations

Signature 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name Michael K Lane	Approved by District Supervisor		
Title SR EH&S Specialist	Approval Date	Expiration Date	
E-mail Address myke.lane@williams.com	Conditions of Approval		Attached <input type="checkbox"/>
Date 9/21/10 Phone (505) 634-4219			

\* Attach Additional Sheets If Necessary

**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Below-Grade Tank Removal  
Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

**Closure Conditions and Timing:**

Pursuant to 19.15.17.13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be schedule as specified in 19.15.17.12 (A)(5) NMAC.
- WPX chooses to take the BGT out-of-service due to operational needs. Closure under these conditions will be closed within 60 days of cessation of the BGT's operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19.15.17.11.1(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

**General Plan Requirements:**

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current surface owner of record. The surface owner of record will be notified of the intent to closure the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.
2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)
3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank, ...). The well will be temporarily shutin until the rerouting is completed.
4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit #94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD #001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).
5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).
6. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as

solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D of 19.15.9.712 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

7. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.
8. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(E)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Table 1: Closure Criteria for BGTs

Components	Testing Methods	Closure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 418.1 <sup>(1)</sup>	100
Chlorides	EPA SW-846 Method 300.1 <sup>(1)</sup>	250 <sup>(2)</sup>

<sup>(1)</sup> Method modified for solid waste.

<sup>(2)</sup> If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

9. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.
10. Upon completion of the tank removal, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be recontoured to match the native grade and prevent ponding.
11. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. *Note: If a surface owner agreement requires reseeding or other surface restoration that do not meet the revegetation requirements of 19.15.17.13.I NMAC then WPX will submit the proposed alternative with written documentation that the surface owner agrees to the alternative, for Division approval.*
12. For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

#### Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Site Diagram with coordinates
- Available Inspection reports
- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation



**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
**Production Pit: Fiberglass Below-Grade Tank**

Although these tanks have performed well to protect the public health, welfare and environment, in accordance with Rule 19.15.17.13.A (4) NMAC, Williams will removed all BGTs constructed of fiberglass by June 16, 2013. These tanks do not meet the construction/design standards specified in 19.15.17.11 (1-4). The following plans describes the general design and construction (D&C) and Operations and Maintenance (O&M) of these production pits used on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico.

**Design and Construction Plan**

The pit is located as close as possible to the well and associated production/process equipment to minimize surface disturbance. The excavation bottom and sidewalls were compacted prior to installation of the pit. The BGT consisted of single-wall fiberglass tank following appropriate API and industry codes, placed in a 20-mil High-Strength Polyethylene resin (Permeability Rating – 0.041 USPerms), and the liner banded to the tanks. A 2" Sch-40 PVC riser was placed between the tank and liner as a leak-detection inspection port. See the attached Schematic and liner spec sheet. The pit is protected from runoff by the construction of a compacted earthen berm. Fencing is constructed to protect livestock/wildlife as specified by the federal Surface Management Agency or, if not federal land/minerals requirements. WPX posts a well sign in accordance with the federal Surface Management Agency and rule 19.15.3.103.

**Operations and Maintenance Plan**

1. WPX only allows produced liquids meeting the RCRA exemption for O&G wastes to be stored in the SGT. WPX will not discharge or store any hazardous waste as defined under RCRA 40CFR 261 and 19.15.1.7.W(3) NMAC in any temporary pit. Produced water is disposed by evaporation or transport any of the following NMOCD approved facilities depending on the well location: Basin Disposal, Inc in Bloomfield, New Mexico (Permit # NM-01-005), Williams Rosa SWD#1 (Permit # SWD-916), Williams Rosa #94 (Permit # SWD-758), Burlington Resources Jillson SWD#1 (Permit #R10168A), or other NMOCD approved water disposal facilities. WPX maintains sufficient freeboard for to prevent overtopping. Discharges to the pit will be shutoff if the liquid level does not provided sufficient free-board and liquid removal can not be scheduled in a timely manner. Any oil or hydrocarbon collecting on the pit is removed. Saleable condensate is returned to the sales tank. Slop oil from compression is recycled with Safety Kleen, Farmington, NM or Hydropure, Aztec, NM (No Permit Required).
2. If the tank integrity is compromised:
  - a. All discharges will be shut off to the pit.
  - b. All liquids will be removed as soon as possible but no more that within 24 hours of discovery
  - c. WPX will notify and report to NMOCD as follows:
    - i. If the release is less than 25 bbls, the Aztec District Office by phone or email within 48-hours of discovery and repair.
    - ii. If the release is suspected to be greater than 25 bbls, the Aztec District Office and the Environmental Bureau Chief by phone for immediate verbal notification pursuant to 19.15.3.116.B (1)(d).
  - d. Written Spill/Release reports will be submitted on Form C-141 per 19.15.3.116.C NMAC within 15 days to the Aztec District Office.
3. Berms around the perimeter of the pit, shall be maintained as protection from run-on.
4. WPX will inspect the BGT pit monthly. Electronic copies of the inspections will be kept at the WPX San Juan Basin office for a minimum of five years following completion. Copies of the inspections will be available to NMOCD upon request.

**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Production Pit: Below-Grade Tank  
Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all out-of-service BGTs used to store produced liquids during production operations at gas wells operated by WPX.

For those closures which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized. All closure activities will include proper documentation and will be submitted to OCD within 60 days of the pit closure on a Closure Report using Division Form C-144. The Report will include the following:

- Plot Plan (Pit Diagram)
- Available Inspection reports
- Sampling Results
- Waste disposal documentation

**General Plan Requirements:**

1. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank ...). The well will be temporarily shut in until the rerouting is completed.
2. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed of by injection at one of the Williams Production Rosa Unit Salt Water Disposal wells: Rosa SWD #1 (API: 30-039-27055) I-23-31N-06W Permit - SWD-916 or Rosa Unit #94 (API: 30-039-23035) K-16-31N-05W, Permit - SWD-758.
3. Notice of Closure will be given to the landowner or SMA, and the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)
4. The BGT and all associated materials will be removed, and recycled, reused, or disposed of in a Division-approved facility. All materials that can not be recycled or reused will be treated a solid waste and will be disposed of at a licensed disposal facility (probably San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426).
5. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(B)(1)(b) NMAC. In the event that the criteria are not met (See Table 1), a release will be reported following Rule 116 and impacted soils will be excavated and hauled to Envirotech Landfarm near Bloomfield, NM (NMOCD Permit NM-01-0011). Approval to haul will be requested of the Aztec District office prior to initiation.

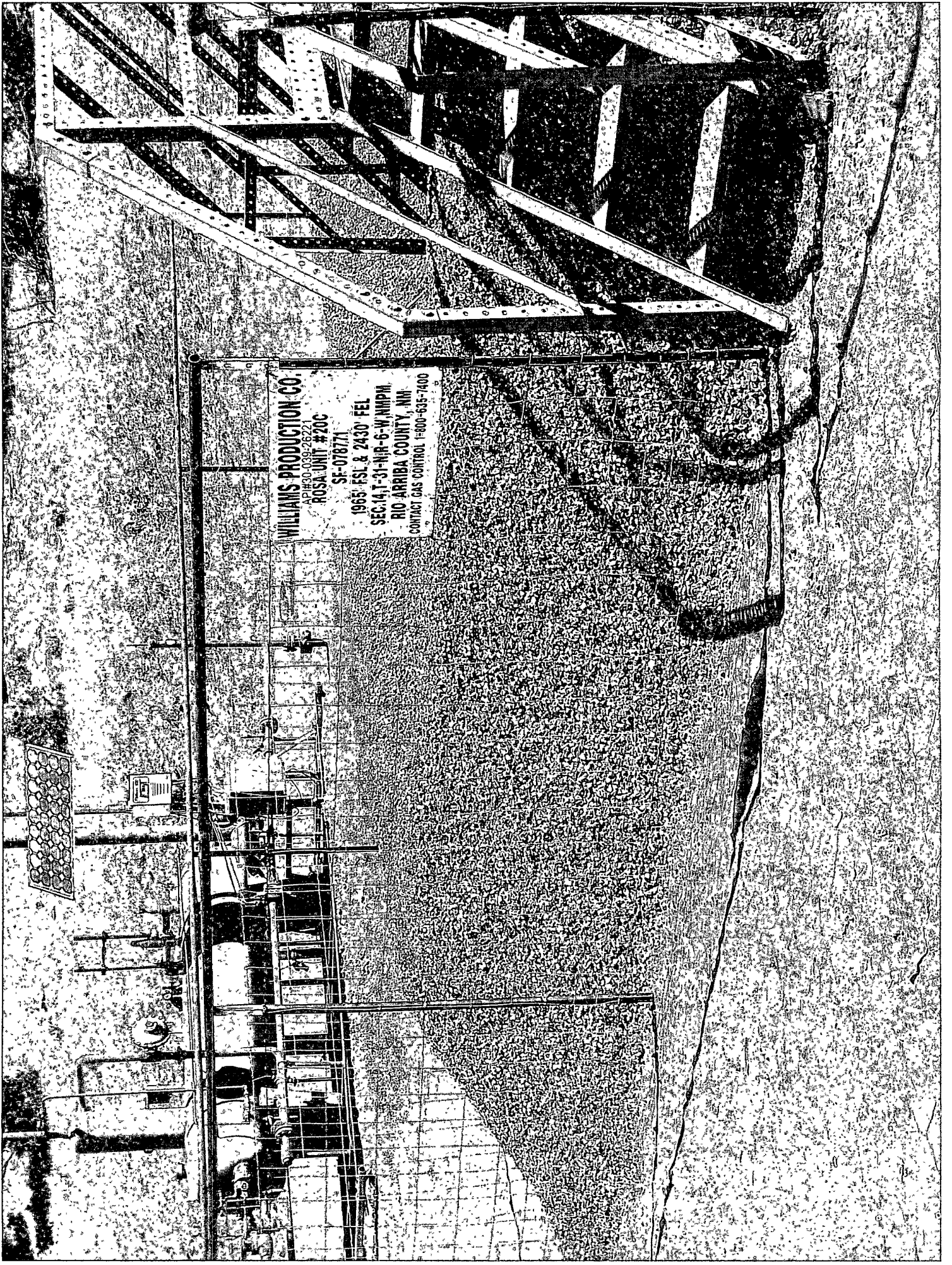
Table 1: Closure Criteria for BGTs

Components	Testing Methods	Closure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 8015 M(Full Range)* or Method 418.1	100
Chlorides	EPA SW-846 Method 300.1	250

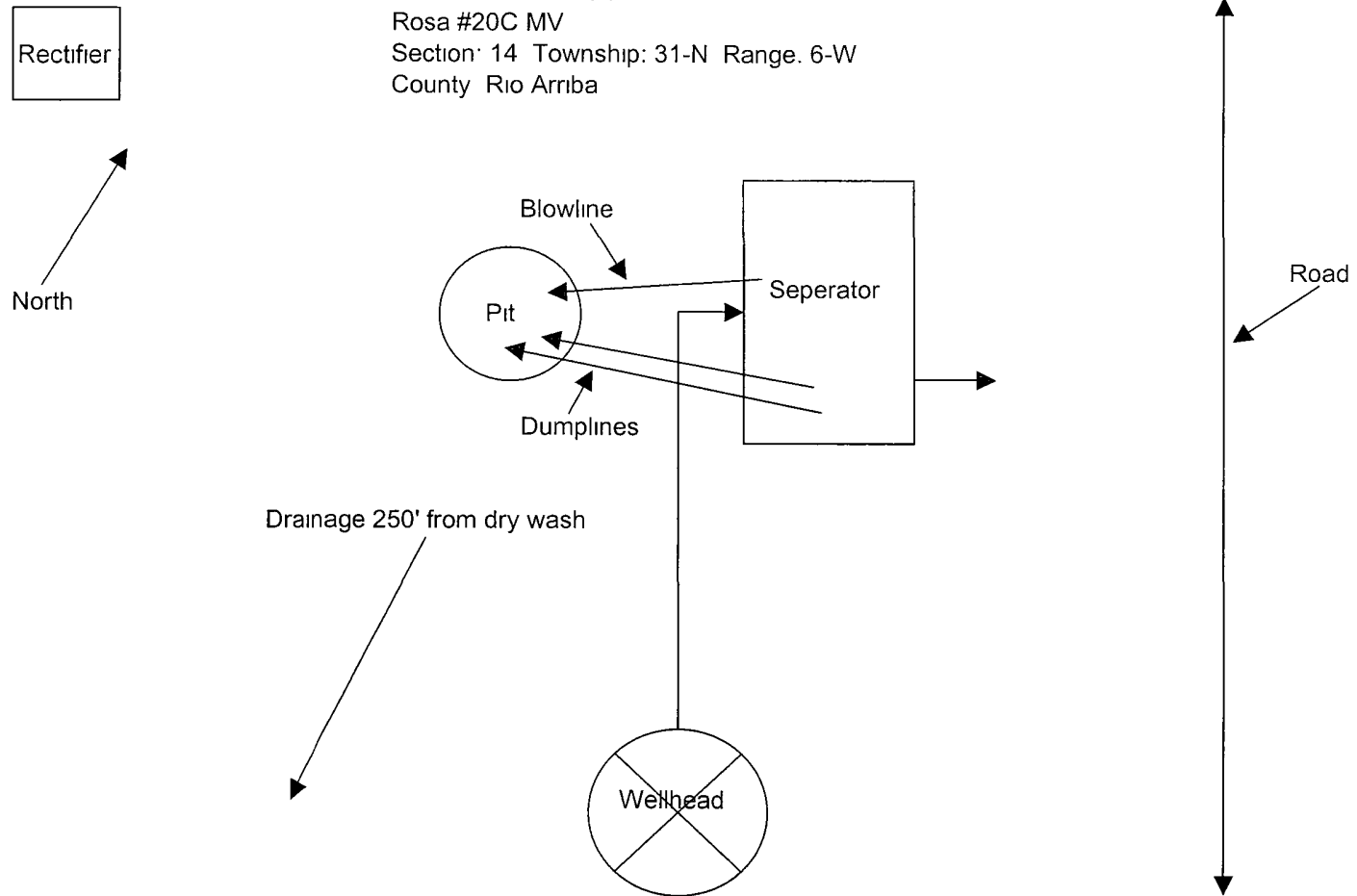
\* Preferred method

6. Upon completion of the tank removal and any necessary soil remediation, the excavation will be backfilled with non-waste earthen material compacted to native and covered with a minimum of one foot of top soil. The surface will be re-contoured to match the native grade.
7. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. *Note: WPX assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) or Land owner as part of a surface use agreement or APD are Division-approved methods unless notified by the Division of their unacceptability.*
8. For those portions of the former pit area required for production activities, re-seeding will be done at well abandonment, and following the procedure noted above.

WILLIAMS PRODUCTION CO.  
AP#30-032622  
ROSA UNIT #20C  
SF-07871  
1965 FSL & 2430 FEL  
SEC.14.T-31-NR-6-W,NMPPM  
RIO ARriba COUNTY, NM  
CONTACT GAS CONTROL 1-800-635-7400



Williams Production  
Rosa #20C MV  
Section 14 Township: 31-N Range: 6-W  
County Rio Arriba



						Liner	Leak detection		Pit
Date	WellName	Run	Formation	Construction	SGT. BGT, Above	Banded Plastic liner, Double Wall Steel, Bottom Plastic Liner	Y/N	level	level
8/14/2008	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	plastic liner	Yes	41"	41"
10/3/2008	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	plastic liner	Yes	14"	43"
11/1/2008	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	14"	43"
12/18/2008	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	55"	45"
1/2/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	38"	54"
1/20/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	38"	61
3/2/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	2'7"	2'4.75"
4/20/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	22"	31"
7/29/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	33"	33"
8/27/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	26"	28"
9/17/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	28"	30"
10/28/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	23"	24"
12/30/2009	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	29"	28"

1/26/2010	ROSA UNIT #020C	04-68	Mesa Verde	FIBERGLASS	BGT	NO	YES	29"	30"
-----------	--------------------	-------	------------	------------	-----	----	-----	-----	-----



**envirotech**  
Analytical Laboratory

**EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons**

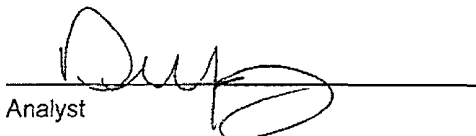
Client:	Williams	Project #:	00068-0128
Sample ID:	Rosa 020C	Date Reported:	04-16-10
Laboratory Number:	53678	Date Sampled:	04-05-10
Chain of Custody No:	9078	Date Received:	04-13-10
Sample Matrix:	Soil	Date Extracted:	04-14-10
Preservative:		Date Analyzed:	04-15-10
Condition:	Intact	Analysis Requested:	8015 TPH

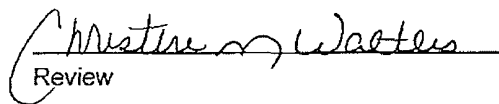
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: Rosa 020C

  
Analyst

  
Review





EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-15-10 QA/QC	Date Reported:	04-16-10
Laboratory Number:	53682	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-15-10
Condition:	N/A	Analysis Requested:	TPH

	Lab Date	Lab RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	8.0844E+002	8.0876E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.4219E+002	9.4257E+002	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

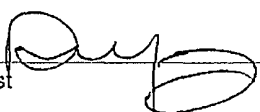
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	46.5	46.7	0.4%	0 - 30%
Diesel Range C10 - C28	30,700	30,500	0.7%	0 - 30%

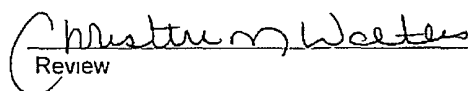
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	46.5	250	306	103%	75 - 125%
Diesel Range C10 - C28	30,700	250	31,800	103%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 53632 - 53634, 53677 - 53678, 53682 - 53683, and 53689 - 53691

Analyst 

Review 



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Williams	Project #:	00068-0128
Sample ID:	Rosa 020C	Date Reported:	04-16-10
Laboratory Number:	53678	Date Sampled:	04-05-10
Chain of Custody:	9078	Date Received:	04-13-10
Sample Matrix:	Soil	Date Analyzed:	04-15-10
Preservative:		Date Extracted:	04-14-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.0 %
	1,4-difluorobenzene	99.5 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 020C

Analyst

Review

Client	N/A	Project #	N/A
Sample ID:	04-15-BT QA/QC	Date Reported:	04-16-10
Laboratory Number:	53632	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-15-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	L Cal RF	C Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	2.1634E+006	2.1678E+006	0.2%	ND	0.1
Toluene	1.5103E+006	1.5133E+006	0.2%	ND	0.1
Ethylbenzene	1.1888E+006	1.1912E+006	0.2%	ND	0.1
p,m-Xylene	2.6716E+006	2.6770E+006	0.2%	ND	0.1
o-Xylene	8.9147E+005	8.9326E+005	0.2%	ND	0.1

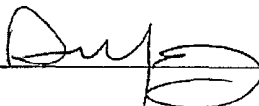
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

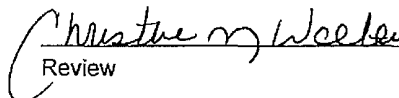
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	44.7	89.3%	39 - 150
Toluene	ND	50.0	48.8	97.7%	46 - 148
Ethylbenzene	ND	50.0	44.7	89.4%	32 - 160
p,m-Xylene	ND	100	99.4	99.4%	46 - 148
o-Xylene	ND	50.0	48.6	97.2%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 53632 - 53634, 53677 - 53678, 53682 - 53683, and 53689 - 53691

Analyst 

Review 



**envirotech**  
Analytical Laboratory

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Williams	Project #:	00068-0128
Sample ID:	Rosa 020C	Date Reported:	04-16-10
Laboratory Number:	53678	Date Sampled:	04-05-10
Chain of Custody No:	9078	Date Received:	04-13-10
Sample Matrix:	Soil	Date Extracted:	04-14-10
Preservative:		Date Analyzed:	04-14-10
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	27.1	8.6

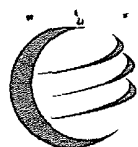
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Rosa 020C

Analyst

Review



# envirotech

Analytical Laboratory

EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	04-16-10
Laboratory Number:	04-14-TPH.QA/QC 53677	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	04-14-10
Preservative:	N/A	Date Extracted:	04-14-10
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	04-05-10	04-14-10	1,540	1,600	3.9%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	8.6

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	848	903	6.5%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	848	2,000	2,340	82.2%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 53677-53678, 53663-53666 and 53670-53671

Analyst

Review

Client:	Williams	Project #:	00068-0128
Sample ID:	Rosa 020C	Date Reported:	04-16-10
Lab ID#:	53678	Date Sampled:	04-05-10
Sample Matrix:	Soil	Date Received:	04-13-10
Preservative:		Date Analyzed:	04-14-10
Condition:	Intact	Chain of Custody:	9078

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

20

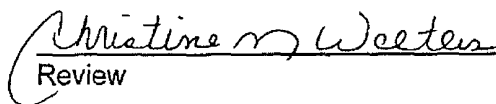
Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa 020C

Analyst




Review



# CHAIN OF CUSTODY RECORD

09078

Client: <b>Williams</b>			Project Name / Location: <b>Rosa O2DC</b>			ANALYSIS / PARAMETERS																																													
Client Address: <b>721 S. main</b>			Sampler Name: <b>Matt Basey</b>			<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI															TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																						
Client Phone No.: <b>634-4219</b>			Client No.: <b>00068-0128</b>																																																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl <sub>2</sub> HCl																																													
<b>Rosa O2DC</b>	<b>4/5</b>	<b>1200</b>	<b>53678</b>	<b>Soil Solid</b>	<b>1-4oz</b>		<b>X</b>	<b>X</b>							<b>X</b>	<b>X</b>			<b>N</b>	<b>Y</b>																															
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
Relinquished by: (Signature) <b>[Signature]</b>			Date <b>4/13/10</b>	Time <b>11:15</b>	Received by: (Signature) <b>[Signature]</b>			Date <b>4/13/10</b>			Time <b>11:15</b>																																								
Relinquished by: (Signature)					Received by: (Signature)																																														
Relinquished by: (Signature)					Received by: (Signature)																																														



5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



WM of NM - San Juan County  
78 County Road 3140  
Aztec, NM, 87410  
Ph: (505) 334-1121

Original  
Ticket# 1268158

Customer Name WILLIAMSFIELDSE WILLIAMS FIEL Carrier VAUGHN OILFIELD SERVICES, INC  
Ticket Date 04/16/2010 Vehicle# T15 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0000058  
State Waste Code Gen EPA ID  
Manifest  
Destination Grid  
PO  
Profile: ()  
Generator

	Time	Scale	Operator	Inbound	Gross	
In	04/16/2010 17:24:53	Inbound 301	nbaca			45100 lb*
Out	04/16/2010 18:18:08	Outbound 302	nbaca		Tare	39680 lb
			* Manual Weight		Net	5420 lb
					Tons	12.71

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	MLY-MSW-Loose- Yds 100	11.00	Yards	5.51	3.75	\$60.61	RIOARRIBA



Marcus Cheney  
Halo  
T-15  
Williams Production  
Rosa 16a  
Rosa 16C  
Rosa 20C

Total Tax \$3.75  
Total Ticket \$64.36

Driver's Signature



**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Below-Grade Tank Removal  
Closure Report

**Well:** (Rosa Unit# 020C)  
**API No:** 30-03926221  
**Location:** J-S14-T31N-R06W, NMPM



In accordance with Rule 19.15.17.13 NMAC, the following report describes the general closure of the referenced below-grade tanks (BGT) on Williams Production Co, LLC (WPX) location in the San Juan Basin of New Mexico. The closure follows this WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to the standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

**Closure Conditions and Timing:**

Pursuant to 19.15.17.13 (A) NMAC, WPX will initiate closure of any BGT should any one of these conditions occur:

- The Division requires closure because of imminent danger to fresh water, public health or the environment.
- The integrity of the BGT fails. Notification will be within 48 hours to the Division and closure will be schedule as specified in 19.15.17.12 (A) (5) NMAC.
- WPX chooses to take the BGT out-of-service due to operational needs. Closure under these conditions will be initiated within 60 days of cessation of the BGT's operation.
- BGTs installed prior to June 16, 2008 that do not meet the requirements under 19.15.17.11.(6) NMAC and WPX chooses not to retrofit or upgrade. Closure under these conditions will be completed within five years (by June 16, 2013).

**General Plan Requirements:**

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will review County Tax Records for the current landowner of record. The landowner of record will be notified of the intent to closure the BGT by certified mail and a copy of this notification will be included in the closure report. In the case of an emergency, the landowner of record will be notified as soon as practical.

Williams notified the SMA of its intent to clean close the BGT via Certified Mail on March 10, 2009 see attached. No return receipt required per BLM:FFO/NMOCD MOU dated 5/4/09.

2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)

Aztec District office was notified of Williams E&P intent to close on (01/14/2010). Email attached.

3. All piping will be rerouted to an alternative produced water storage/disposal location (e.g. surface tanks, temporary frac tank, ...). The well will be temporarily shut-in until the rerouting is completed.

Williams closed the BGT used by the Rosa Unit# 020C separator and piped all liquids to the Produced Water Storage Tank.

4. All produced water will be removed from the BGT following discharge-pipe rerouting. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit #94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD #001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).

Produced water in the BGT prior to closures was removed by vacuum truck and hauled to the Rosa Unit disposal wells listed.

5. Solids and sludges will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).

No solids or sludge required removal prior to excavation and removal of the tank.

6. Williams will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of paragraph 1 subsection D or 19.15.9.712 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

The fiberglass tank and plastic liner was disposed of at the San Juan Regional Landfill.

7. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.

The fiberglass tank and plastic liner were removed offsite. All other piping and equipment remains in use. See attached photo.

8. Following removal of the tank and any liner material, a five-point composite sample will be taken of the excavation and tested per 19.15.17.13(E)(4) NMAC as identified in Table 1. Grab samples will be collected from any area that is wet, discolored or showing other evidence of a release. Results will be report to the Division following receipt from the lab on Form C-141.

Table 1: Closure Criteria for BGTs

Components	Testing Methods	Closure Limits (mg/Kg)	Sample Results (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 Method 8021B or 8260B	50	ND
TPH	EPA SW-846 Method 418.1 <sup>(1)</sup>	100	27.1
Chlorides	EPA SW-846 Method 300.1 <sup>(1)</sup>	250 <sup>(2)</sup>	20

<sup>(1)</sup> Method modified for solid waste.

<sup>(2)</sup> If background concentration of Chlorides greater than 250 mg/Kg, then higher concentration will be used for closure.

9. If the Division and/or Williams determine there is a release, Williams will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC.

No release detected.

10. Upon completion of the tank removal, and any necessary soil remediation, the excavation will be backfilled with non-waste earthen material compacted to native and covered with a minimum of one foot of top soil or background thickness. The surface will be recontoured to match the native grade.

Pit area backfilled with clean earthen material following sample results. No contaminated soil taken off site. Backfill compacted to avoid settling and pit area remains in use for production operations.

11. For those portions of the former pit area no longer required for production activities, WPX will seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. *Note: WPX assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) APD are Division-approved methods unless notified by the Division of their unacceptability. If a landowner agreement requires reseeding or other surface restoration that does not meet the revegetation requirements of 19.15.17.13. , I then WPX will submit the proposed alternative with written documentation that the landowner agrees to the alternative, for Division approval.*

Pit area along with unused portions of well pad interim reclaimed and following P&A entire location to be reclaimed and recontoured in accordance with Surface Management Agency requirements in APD-COAs and per BLM:FFO/NMOCD MOU dated 5/4/09.

12. For those portions of the former pit area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above. See above notes.

#### **Closure Report:**

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Site Diagram with coordinates
- Available Inspection reports
- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Re-vegetation Application Rate & Seeding techniques
- Photo Documentation of Reclamation