

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

2585

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

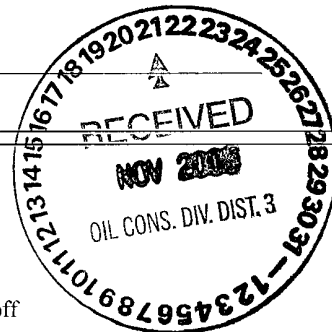
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's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

1  
Operator Williams Operating Co, LLC OGRID 120782  
Address PO Box 640 / 721 S Main Aztec, NM 87410  
Facility or well name Rosa Unit 378A  
API Number 3003930152 OCD Permit Number \_\_\_\_\_  
U/L or Qtr/Qtr O Section 27 Township 31N Range 5W County Rio Arriba  
Center of Proposed Design Latitude 36 86461 Longitude -107 348437 NAD ☐ 1927 ☒ 1983  
Surface Owner ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2  
☒ **Pit:** Subsection F or G of 19 15 17 11 NMAC  
Temporary ☒ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A  
☐ Lined ☐ Unlined Liner type Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams ☒ Welded ☒ Factory ☐ Other \_\_\_\_\_ Volume 20,000 bbl Dimensions L 140' x W 70' x D 12'

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

4  
☐ **Below-grade tank:** Subsection I of 19 15 17 11 NMAC  
Volume \_\_\_\_\_ bbl Type of fluid \_\_\_\_\_  
Tank Construction material \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type. Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_



5

**Alternative Method:**

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

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

☐ Yes ☐ 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

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (*Applies to temporary, emergency, or cavitation pits and below-grade tanks*)

- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image

☐ Yes ☐ No  
☐ NA

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (*Applies to permanent pits*)

- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image

☐ Yes ☐ No  
☐ 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

☐ Yes ☐ 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

☐ Yes ☐ No

Within 500 feet of a wetland

- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area

- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map

☐ Yes ☐ No

Within a 100-year floodplain

- FEMA map

☐ Yes ☐ No

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**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 \_\_\_\_\_

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**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)

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**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

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**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

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**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 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 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 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 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 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 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

18

**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

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**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 \_\_\_\_\_

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

OCD Representative Signature: Jonathan D. Kelly Approval Date: 2/23/2012

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

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**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: September 22, 2008

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**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

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**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 \_\_\_\_\_ Disposal Facility Permit Number \_\_\_\_\_

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

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**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 36 86461 Longitude -107 348437 NAD ☐ 1927 ☐ 1983

**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 EH&S Specialist

Signature  Date 11/21/08

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

•Meador, Tasha (E&P)

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**From:** johnny@adobecontractorsinc.com  
**Sent:** Friday, November 07, 2008 7:39 AM  
**To:** Meador, Tasha (E&P)  
**Subject:** Fw: Rosa Unit #378A clean-up

----- Original Message -----

**From:** [johnny@adobecontractorsinc.com](mailto:johnny@adobecontractorsinc.com)  
**To:** [Brandon Powell](#)  
**Sent:** Thursday, October 09, 2008 7:48 AM  
**Subject:** Rosa Unit #378A clean-up

Brandon, we were able to start on the clean-up of the Rosa Unit #378A for Williams. Please call if you have any questions Thanks,

Johnny Stinson  
Adobe Contractors  
(505)632-1486 office  
(505)320-6076 cell  
[johnny@adobecontractorsinc.com](mailto:johnny@adobecontractorsinc.com)

11/7/2008



STATE OF NEW MEXICO:

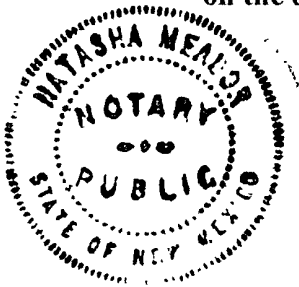
COUNTY OF RIO ARRIBA:

**RECORDATION NOTICE OF PIT BURIAL**

In accordance with Section 19.15.17.13.F.1.f of the NMAC, operator hereby provides notice in the public record of an on-site burial of a temporary pit at the following location:

Well Name:	<u>Rosa 378A</u>
Latitude (DDD MM.MMM'):	<u>36.86461</u>
Longitude (DDD MM.MMM'):	<u>-107.348437</u>
Unit Letter (1/4, 1/4):	<u>O</u>
Section:	<u>27</u>
Township:	<u>31N</u>
Range:	<u>5W</u>
County:	<u>Rio Arriba</u>
State:	<u>NM</u>

IN WITNESS WHEREOF, this Recordation Notice of Pit Burial has been executed on the date indicated below by the undersigned.



WILLIAMS COMPANIES, INC.

  
Michael K. Lane EH&S Specialist

11/21/08  
Date

STATE OF NEW MEXICO  
COUNTY OF SAN JUAN

This document was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_  
by Michael K Lane, EH&S Specialist of WILLIAMS COMPANIES, INC.

  
Notary Public Signature

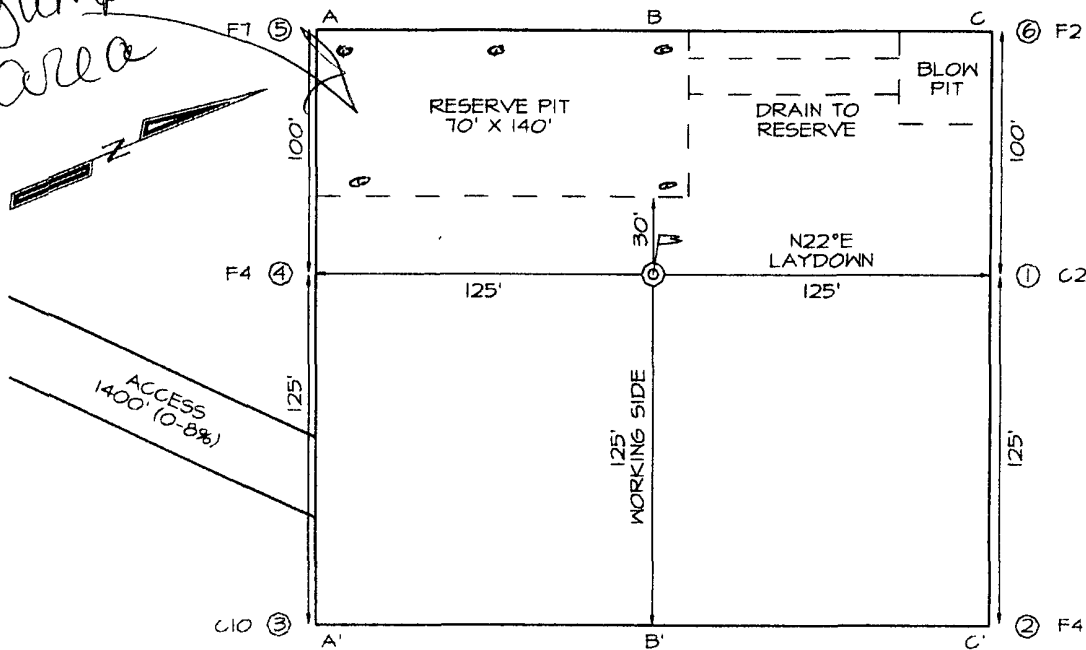
My Commission Expires  
11/30/11

Natasha Meador  
Notary Name Printed

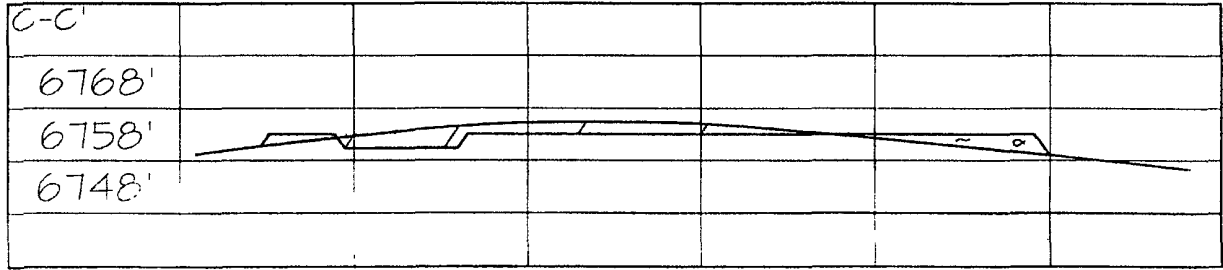
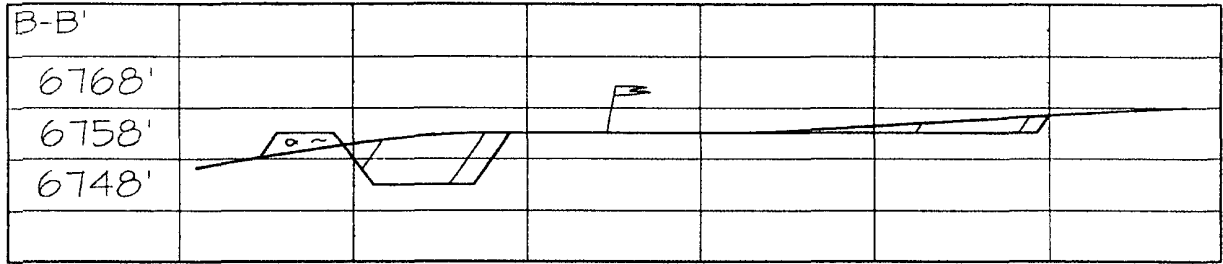
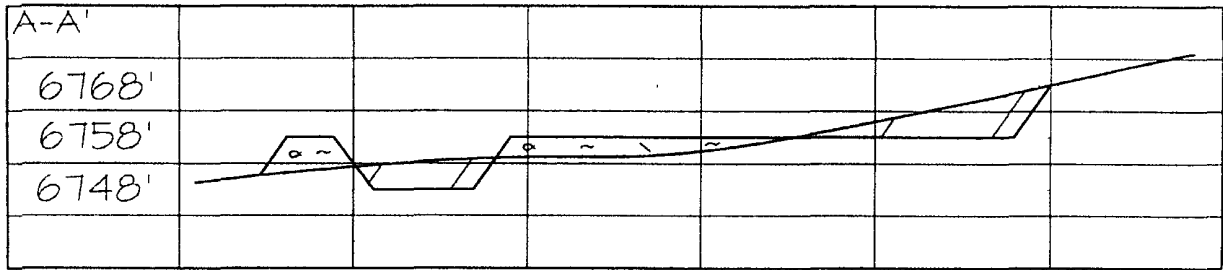


**WILLIAMS PRODUCTION COMPANY ROSA UNIT #378A**  
**510' PSL & 2225' FEL, SECTION 27, T31N, R5W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6758'**

*Sample area*



**LATITUDE: 36.86476° N**  
**LONGITUDE: 107.34822° W**  
 DATUM: NAD1983



EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client	WPX	Project #	04108-0003
Sample ID	Res Pit	Date Reported	10-26-08
Laboratory Number	47739	Date Sampled	10-10-08
Chain of Custody No	5554	Date Received	10-14-08
Sample Matrix	Soil	Date Extracted	10-20-08
Preservative	Cool	Date Analyzed	10-21-08
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)	16.0	0.1
Total Petroleum Hydrocarbons	16.0	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 378A.**

Analyst



Review



EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client	QA/QC	Project #	N/A
Sample ID	10-21-08 QA/QC	Date Reported	10-26-08
Laboratory Number	47738	Date Sampled	N/A
Sample Matrix	Methylene Chloride	Date Received	N/A
Preservative	N/A	Date Analyzed	10-21-08
Condition	N/A	Analysis Requested	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9 8731E+002	9 8771E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1 0085E+003	1 0089E+003	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	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

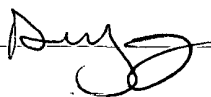
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	253	101%	75 - 125%
Diesel Range C10 - C28	ND	250	249	99.6%	75 - 125%

ND - Parameter not detected at the stated detection limit

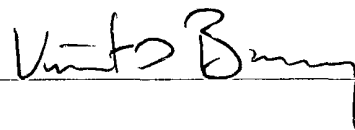
References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments QA/QC for Samples 47738, 47739, 47759 - 47763, 47776, and 47789.

Analyst



Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client	WPX	Project #	04108-0003
Sample ID	Res Pit	Date Reported	10-26-08
Laboratory Number	47739	Date Sampled	10-10-08
Chain of Custody	5554	Date Received	10-14-08
Sample Matrix	Soil	Date Analyzed	10-21-08
Preservative	Cool	Date Extracted	10-20-08
Condition	Intact	Analysis Requested	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.2	0.9
Toluene	14.4	1.0
Ethylbenzene	4.8	1.0
p,m-Xylene	16.6	1.2
o-Xylene	6.1	0.9
Total BTEX	45.1	

ND - Parameter not detected at the stated detection limit

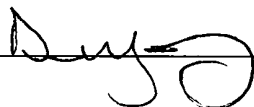
Surrogate Recoveries	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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

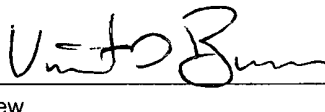
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: Rosa 378A.

Analyst



Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	N/A	Project #	N/A
Sample ID	10-21-BT QA/QC	Date Reported	10-26-08
Laboratory Number	47738	Date Sampled	N/A
Sample Matrix	Soil	Date Received	N/A
Preservative	N/A	Date Analyzed	10-21-08
Condition	N/A	Analysis	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	5 3023E+007	5 3130E+007	0.2%	ND	0.1
Toluene	4 2719E+007	4 2805E+007	0.2%	ND	0.1
Ethylbenzene	3 2101E+007	3 2166E+007	0.2%	ND	0.1
p,m-Xylene	6 8288E+007	6 8425E+007	0.2%	ND	0.1
o-Xylene	3 0913E+007	3 0975E+007	0.2%	ND	0.1

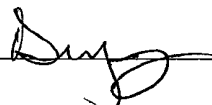
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	2.9	3.1	6.9%	0 - 30%	0.9
Toluene	10.6	10.8	1.9%	0 - 30%	1.0
Ethylbenzene	5.9	6.0	1.7%	0 - 30%	1.0
p,m-Xylene	14.9	16.9	13.4%	0 - 30%	1.2
o-Xylene	6.3	6.1	3.2%	0 - 30%	0.9

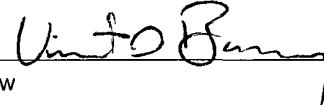
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.9	50.0	51.9	98.1%	39 - 150
Toluene	10.6	50.0	55.6	91.7%	46 - 148
Ethylbenzene	5.9	50.0	53.9	96.4%	32 - 160
p,m-Xylene	14.9	100	107	93.0%	46 - 148
o-Xylene	6.3	50.0	53.3	94.7%	46 - 148

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 47738, 47739, 47759 - 47762, 47776, and 47789.

Analyst 

Review 

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client	WPX	Project #	04108-0003
Sample ID:	Res Pit	Date Reported:	10-21-08
Laboratory Number:	47739	Date Sampled:	10-10-08
Chain of Custody No:	5554	Date Received:	10-14-08
Sample Matrix:	Soil	Date Extracted:	10-20-08
Preservative:	Cool	Date Analyzed:	10-20-08
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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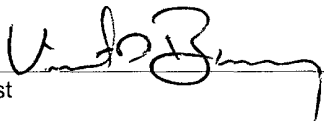
Total Petroleum Hydrocarbons	29.8	5.0
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ND = Parameter not detected at the stated detection limit

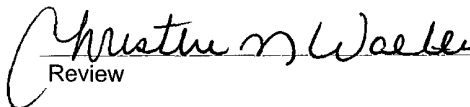
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Rosa 378A.

Analyst



Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	10-22-08
Laboratory Number	10-20-TPH.QA/QC 47767	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	10-20-08
Preservative:	N/A	Date Extracted:	10-20-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	10-06-08	10-20-08	1,770	1,790	1.1%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	18.4	14.2	22.8%	+/- 30%

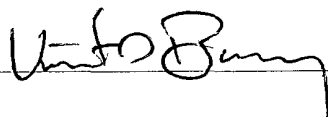
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	18.4	2,000	2,410	119%	80 - 120%

ND = Parameter not detected at the stated detection limit

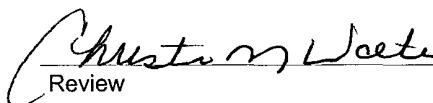
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No 4551, 1978.

Comments: QA/QC for Samples 47723, 47724, 47737 - 47739 and 47767 - 47769.

Analyst



Review



# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	WPX	Project #:	04108-0003
Sample ID:	Res Pit	Date Reported:	10-27-08
Lab ID#:	47739	Date Sampled:	10-10-08
Sample Matrix:	Soil	Date Received:	10-14-08
Preservative:	Cool	Date Analyzed:	10-22-08
Condition:	Intact	Chain of Custody:	5554

Parameter	Concentration (mg/Kg)
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Total Chloride

40.0

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 378A.


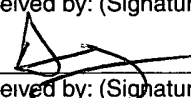
Analyst

Review



# CHAIN OF CUSTODY RECORD

5554

Client: <b>WPX</b>			Project Name / Location: <b>ROSA 378A</b>				ANALYSIS / PARAMETERS																																													
Client Address:			Sampler Name: <b>GLENN S. - ADDE CONT.</b>				<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>PCRA 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)	PCRA 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)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P															PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																							
✓	✓	✓						✓	✓					✓	✓																																					
Client Phone No. <del>                    </del>			Client No.: <b>04108-0003</b>																																																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No /Volume of Containers	Preservative																																														
						HgCl <sub>2</sub>	HCl																																													
<b>RES. PIT</b>	<b>10/10</b>	<b>1424</b>	<b>47739</b>	<b>Soil Solid</b>	<b>1 Mo</b>				✓	✓	✓																																									
				Soil Solid																																																
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**ENVIROTECH INC.**  
 5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615

**Williams Production Co., LLC**  
**San Juan Basin: New Mexico Assets**  
Temporary Pit In-place Closure Plan  
Drilling/Completion and Workover  
(Groundwater >100 feet bgs)

In accordance with Rule 19.15 17.13 NMAC, the following plan describes the general in-place closure requirements of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workovers of oil and gas wells operated by WPX. For those temporary pits 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

- Details on Capping and Covering, where applicable
- Plot Plan (Pit Diagram)
- Inspection reports
- Sampling Results
- Division Form C-105 *WELL COMPLETION OR RECOMPLETION REPORT AND LOG*
- Copy of Deed Notice filed with the County Clerk (format to meet County requirements)

General Plan Requirements:

1. All free standing liquids will be removed from the pit at the start of the closure process. Liquids will be removed in a manner that the appropriate District Office approves including, recycled, reused, reclaimed, evaporated, and/or disposed of in a Division-approved facility.
2. The preferred method of closure for all temporary pits will be on-site closure by in-place burial, provided all the criteria in 19.15 17.13 B are met.
3. The surface owner shall be notified of WPX's proposed closure plan using a means that provides proof of notice (i.e. certified mail/return receipt requested)
4. Within six months of the "rig-off" status occurring WPX will ensure that the temporary pit is covered, recontoured and reseeded in progress
5. 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)
6. The pit liner shall be removed above "mud level" after stabilization. Removal of the liner will consist of manually or mechanically cutting the liner at the mud level and removing all remaining liner. Care will be taken to remove "all" of the liner (i.e. anchored material). All excessive liner will be disposed of at a licensed disposal facility (probably San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426).
7. Solidification of the remaining pit contents shall be achieved by mixing non-waste containing, earthen material. The solidification process will be accomplished using a combination of natural drying and mechanical mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed safe and stable. The mixing ratio shall not exceed 3 parts non-waste to 1 part pit contents.
8. A five-point composite sample will be taken of the pit using sampling tools and all samples tested per 19.15 17.13(B)(1)(b) NMAC. In the event that the criteria are not met (See Table 1), all contents will be handled per 19.15.17.13(B)(1)(a) (i.e. dig and haul to a Division-approved facility). Approval to haul will be requested of the Aztec District office prior to initiation.

Table 1: Closure Criteria for Temporary Pits in Non-sensitive Areas

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	2500
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	500
Chlorides	EPA SW-846 Method 300.1	1000

\* Preferred method

9. Upon completion of solidification and testing, the pit area will be backfilled with non-waste earthen material compacted to native conditions to enable effective revegetation for successful evapotranspiration. A minimum of four feet of cover including replacement of one foot of suitable material to establish vegetation, or the background thickness of topsoil, whichever is greater.
10. Following cover, the site will be recontoured to meet the Surface Management Agency or surface owner requirements. Re-contouring will attempt to match fit, shape, line form, and texture of the surrounding geography. Re-shaping will include drainage control, prevent ponding, and minimize erosion. Natural drainages will be unimpeded and stormwater Best Management Practices (BMPs) will be used to aid in soil stabilization and protection surface water quality.
11. Notification will be sent to the Aztec District office when the reclaimed area is seeded.
12. WPX shall 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.*
13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the on site burial upon the abandonment of all wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the on site burial of the temporary pit. The plate will be easily removable and a four-foot tall riser will be threaded into the top of the collar marker and welded around the base with the operations information at the time of all wells on the pad abandoned. The information will include Operator Name, Lease Name, Well Name, and number, USTR, and an indicator that the marker is an onsite pit burial location.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN  
DUPLICATE

(See other instructions on  
reverse side)

FORM APPROVED  
OMB NO 1004-0137  
Expires February 28, 1995

5 LEASE DESIGNATION AND LEASE NO  
NMSF-078770

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO  
Rosa Unit #378A

9 API WELL NO  
30-039-30152

10 FIELD AND POOL, OR WILDCAT  
Basin Fruitland Coal

11 SEC., T., R., M., OR BLOCK AND  
SURVEY OR AREA  
SEC 27-31N-5W

12 COUNTY OR 13 STATE  
Rio Arriba New Mexico

19 ELEVATION CASINGHEAD

25 WAS DIRECTIONAL SURVEY MADE  
YES

27 WAS WELL CORED  
NO

1a TYPE OF WELL F OIL WELL ☒ GAS WELL DRY OTHER  
b TYPE OF COMPLETION  
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER

2 NAME OF OPERATOR  
WILLIAMS PRODUCTION COMPANY

3 ADDRESS AND TELEPHONE NO  
P O Box 640, Aztec, NM 87410 (505) 634-4208

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At Surface 510' FSL & 2225' FEL, Sec 27 (O), T31N, R5W  
At top production interval reported below 990' FSL & 2225' FEL, Sec 27 (O), T31N, R5W  
At total depth Same

14 PERMIT NO DATE ISSUED

15 DATE 16 DATE T D 17 DATE COMPLETED (READY TO PRODUCE)  
SPUDDED REACHED  
7-3-08 7-25-08 8-21-08

18 ELEVATIONS (DK, RKB, RT, GR, ETC)\*  
6758' GR

20 TOTAL DEPTH, MD & TVD 21 PLUG, BACK T D, MD & TVD  
3750' MD 3750' MD

22 IF MULTICOMP, 23 INTERVALS  
HOW MANY DRILLED BY

ROTARY TOOLS CABLE TOOLS  
x

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
Basin Fruitland Coal 3535' - 3650'

26 TYPE ELECTRIC AND OTHER LOGS RUN  
Mud Logging only on this well

28 CASING REPORT (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8", K-55	36 0#	336'	12-1/4"	200 SX - SURFACE	
7", K-55	23 0#	3518'	8-3/4"	525 SX - SURFACE	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5-1/2", 17#, N-80	3381'	3750'	0 SX		2-7/8", 6 5# J-55	3733'	

31 PERFORATION RECORD (Interval, size, and number)

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	Well was not fraced or acidized

Basin Fruitland Coal - 3535' - 3650'

33 PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
8-18-08	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR )
0 oz	130 oz				565 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc ) TO BE SOLD

TEST WITNESSED BY Al Rector

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED \_\_\_\_\_ TITLE Drlg COM DATE 8-25-08



Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: ROSA UNIT #378-A	API #: 30-039-30152
---------------------------------	---------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <input checked="" type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly
--	--

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported:
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: NEED TO WORK ON GETTING MORE OIL OUT OF PIT		
Inspector Signature: HARMON COCKRELL		
Printed Name: HARMON COCKRELL		
Title: DRILLING CONSULTANT (T.D.C.I.)		
Date: 7/9/2008 Phone: (505) 486-1935		

Record Retention: Submit with Closure  
File: EH&S

Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #378-A	<b>API #:</b> 30-039-30152
--	----------------------------

<b>Pit Type:</b> <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input checked="" type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly
---	---

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported:
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Willie Mock		
Printed Name: Willie Mock		
Title: Drilling Consultant		
Date: 7/2/08 Phone: 505 793-0528		

Record Retention. Submit with Closure  
File: EH&S

Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #378-A	<b>API #:</b> 30-039-30152
--	----------------------------

<b>Pit Type:</b> <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input checked="" type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly
---	---

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported:
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Willie Mock		
Printed Name: Willie Mock		
Title: Drilling Consultant		
Date: 7/3/08 Phone: 505 793-0528		

Record Retention: Submit with Closure  
File: EH&S



Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #378-A	API #: 30-039-30152
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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #378-A	<b>API #:</b> 30-039-30152
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Title: Drilling Consultant		
Date: 7/5/08 Phone: 505 793-0528		

Record Retention. Submit with Closure  
File: EH&S

Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #378-A	API #: 30-039-30152
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Date: 7/6/08 Phone: 505 793-0528		

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Exploration & Production  
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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #378-A	<b>API #:</b> 30-039-30152
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Printed Name: Willie Mock		
Title: Drilling Consultant		
Date: 7/7/08 Phone: 505 793-0528		

Record Retention: Submit with Closure  
File: EH&S

Exploration & Production  
San Juan Basin Operations  
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505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #378-A	<b>API #:</b> 30-039-30152
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Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: #2 PUMP WAS RUNNING ON HOLE WHEN THE CREWS WAS DOING RERAIR ON LINER GASKET ON #1 PUMP, #2 PUMP STARTED LEAKING OIL INTO THE PIT. WORKING ON CLEANING OIL OUT OF PITS THREW TODAYS REPORT ON 7/8/2008. ROTARY GARD WAS INSTALLED WITH DRAIN HOSE ATTACHED RUNNING INTO 5 GAL PUCKET.		
Inspector Signature: Willie Mock		
Printed Name: Willie Mock		
Title: Drilling Consultant		
Date: 7/8/08 Phone: 505 793-0528		

Record Retention: Submit with Closure  
File. EH&S

Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: ROSA UNIT #378-A	API #: 30-039-30152
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Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	

Comments: NEED TO WORK ON GETTING MORE OIL OUT OF PIT

Inspector Signature: HARMON COCKRELL

Printed Name: HARMON COCKRELL

Title: DRILLING CONSULTANT (T.D.C.I.)

Date: 7/10/2008

Phone: (505) 486-1935

Record Retention. Submit with Closure  
File: EH&S

Exploration & Production  
San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: ROSA UNIT #378-A	API #: 30-039-30152
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Comments: NEED TO WORK ON GETTING MORE OIL OUT OF PIT		
Inspector Signature: HARMON COCKRELL		
Printed Name: HARMON COCKRELL		
Title: DRILLING CONSULTANT (T.D.C.I.)		
Date: 7/11/2008 Phone: (505) 486-1935		

Record Retention: Submit with Closure  
File: EH&S

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San Juan Basin Operations  
720 So. Main / PO Box 640  
Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

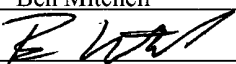
Facility Name: ROSA UNIT #378-A	API #: 30-039-30152
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Inspector Signature: HARMON COCKRELL		
Printed Name: HARMON COCKRELL		
Title: DRILLING CONSULTANT (T.D.C.I.)		
Date: 7/12/2008 Phone: (505) 486-1935		

Record Retention: Submit with Closure  
File: EH&S



Submit To Appropriate District Office Two Copies <b>District I</b> 1625 N French Dr., Hobbs, NM 88240 <b>District II</b> 1301 W Grand Avenue, Artesia, NM 88210 <b>District III</b> 1000 Rio Brazos Rd., Aztec NM 87410 <b>District IV</b> 1220 S St Francis Dr., Santa Fe NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>		<b>Form C-105</b> July 17, 2008	
		1. WELL API NO. <b>30-039-30152</b>		2. Type of Lease <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED/INDIAN	
		3. State Oil & Gas Lease No <b>SF-078772</b>			
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>					
4. Reason for filing  <input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15 17 13 K NMAC)				5. Lease Name or Unit Agreement Name Rosa	
				6. Well Number Rosa Unit #378A	
7. Type of Completion <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER					
8. Name of Operator    WPX Energy Production, LLC				9. OGRID    120782	
10. Address of Operator    P O BOX 640    AZTEC, NM 87410				11. Pool name or Wildcat	
12. Location	Unit Ltr	Section	Township	Range	Lot
Surface:					
BH:					
13. Date Spudded	14. Date T D Reached	15. Date Rig Released 8/21/2008		16. Date Completed (Ready to Produce)	
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
22. Producing Interval(s), of this completion - Top, Bottom, Name					
<b>23 CASING RECORD (Report all strings set in well)</b>					
CASING SIZE	WEIGHT LB /FT	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC		
			DEPTH INTERVAL    AMOUNT AND KIND MATERIAL USED		
<b>28 PRODUCTION</b>					
Date First Production		Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )		Well Status ( <i>Prod or Shut-in</i> )	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl
29. Disposition of Gas ( <i>Sold, used for fuel, vented, etc</i> )					30. Test Witnessed By
31. List Attachments					
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit					
33. If an on-site burial was used at the well, report the exact location of the on-site burial					
Latitude 36 85176 Longitude 107 29086    NAD 1927 1983					
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief					
Ben Mitchell    Printed Name					
Signature 		Title    Permit Technician		Date    2/21/2012	
E-mail Address: tasha.meador@williams.com					

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-36152		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 378A
*OGRID No 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6758'

<sup>10</sup> Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	27	31N	5W		510	SOUTH	2225	EAST	RIO ARriba

<sup>11</sup> Bottom Hole Location If Different From Surface

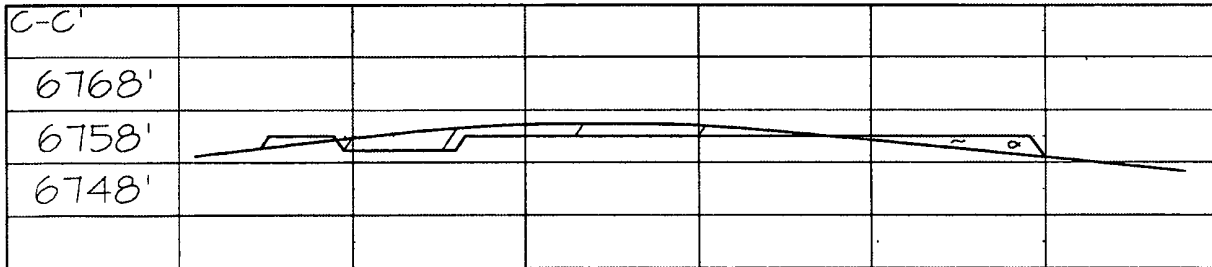
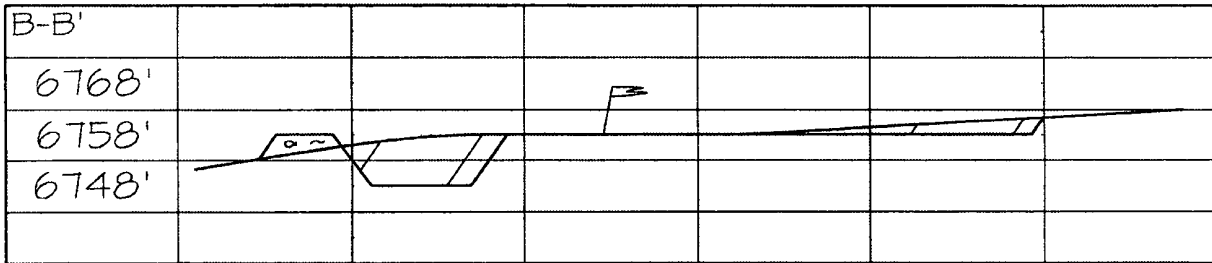
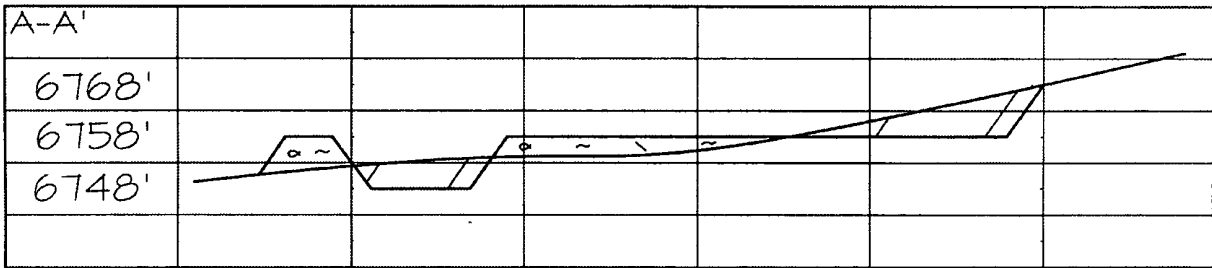
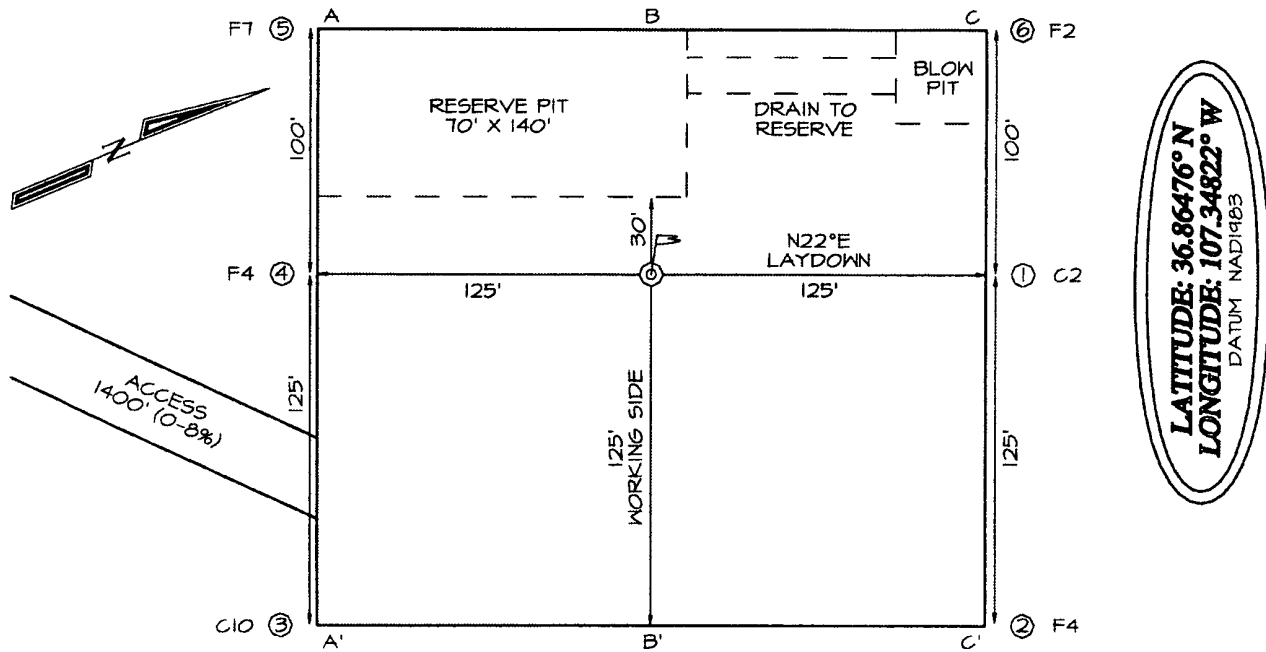
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	27	31N	5W		990	SOUTH	2225	EAST	RIO ARriba

<sup>12</sup> Dedicated Acres 320.0 Acres - (E/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No
--	-------------------------------	----------------------------------	------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Ben Mitchell Printed Name Regulatory Specialist Title 10/13/05 Date
	<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Survey Date: OCTOBER 13, 2005 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269

**WILLIAMS PRODUCTION COMPANY ROSA UNIT #378A**  
**510' FSL & 2225' FEL, SECTION 27, T31N, R5W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6758'**



RIO ARRIBA COUNTY, NEW MEXICO

