

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Galt 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

1937

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

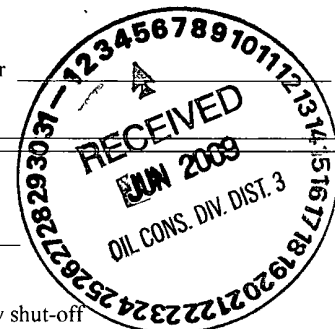
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's 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 Jicarilla 93 #12A  
API Number. 3003929804 OCD Permit Number. \_\_\_\_\_  
U/L or Qtr/Qtr L Section 34 Township 27N Range 03W County Rio Arriba  
Center of Proposed Design Latitude 36° 31' 40.04155" N Longitude 107° 08' 19.14598" W 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 14' 6" x 8' 6" x 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.	<p><b>Fencing:</b> Subsection D of 19.15.17.11 NMAC (<i>Applies to permanent pits, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input type="checkbox"/> Alternate. Please specify _____ per BLM/Tribal requirements.</p>																																												
7.	<p><b>Netting:</b> Subsection E of 19.15.17.11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>																																												
8.	<p><b>Signs:</b> Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>																																												
9.	<p><b>Administrative Approvals and Exceptions:</b></p> <p>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</p> <p><b>Please check a box if one or more of the following is requested, if not leave blank:</b></p> <p><input checked="" type="checkbox"/> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.</p> <p><input type="checkbox"/> Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</p>																																												
10.	<p><b>Siting Criteria (regarding permitting):</b> 19.15.17.10 NMAC</p> <p><b>Instructions:</b> <i>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.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 85%;">Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</td> <td style="width: 15%; text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</td> <td></td> </tr> <tr> <td>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).</td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td>- Topographic map; Visual inspection (certification) of the proposed site</td> <td></td> </tr> <tr> <td>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</td> <td style="text-align: right;"> <input type="checkbox"/> NA </td> </tr> <tr> <td>- Visual inspection (certification) of the proposed site; 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NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</td> <td></td> </tr> <tr> <td>Within a 100-year floodplain.</td> <td style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td>- FEMA map</td> <td></td> </tr> </table>	Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		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).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	- Topographic map; Visual inspection (certification) of the proposed site		Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	<input type="checkbox"/> NA	- Visual inspection (certification) of the proposed site; 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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

16.

**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

17.

**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

☐ Yes ☒ No

☐ 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

☒ Yes ☐ No

☐ 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

☐ Yes ☒ No

☐ 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

☐ Yes ☒ 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

☐ Yes ☒ 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

☐ 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

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

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): Michael K. Lane Title: Sr. EH & S Specialist

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

20.

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

OCD Representative Signature: [Signature] Approval Date: 6/08/2012

Title: Deputy Oil & Gas Inspector, District #3 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: 5-11-09

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: \_\_\_\_\_ 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

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 SI REGIONAL LANDFILL, NMED PERMIT SWM-052426  
☒ Soil Backfilling and Cover Installation  
☒ Re-vegetation Application Rates and Seeding Technique  
☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36° 31' 40.04155" N Longitude 107° 08' 19.14598" W 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: 5/18/2009 4/4/09

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

!  
**Meador, Tasha**

---

**From:** johnny@adobecontractorsinc.com  
**Sent:** Friday, April 24, 2009 9:12 AM  
**To:** Brandon Powell  
**Cc:** JJ Miller; Lane, Myke ; Meador, Tasha  
**Subject:** Williams clean-ups

Brandon,  
We will finish the clean-up on the Jicarilla 93 #15 today and will start the Jicarilla 93 #12A on Monday. We have also started the Rosa Unit #257A clean-up on the Carson Forest. Please let me know if you have any questions.

Thanks,

Johnny Stinson  
Gen. Manager/ Adobe Contractors  
Office: (505)632-1486  
Mobile: (505)320-6076  
[johnny@adobecontractorsinc.com](mailto:johnny@adobecontractorsinc.com)

5/14/2009

**Lane, Myke (E&P)**

---

**From:** johnny@adobecontractorsinc.com  
**Sent:** Friday, April 24, 2009 9:15 AM  
**To:** Bryce Hammond; Gabriel Trujillo; Kurt Sandoval  
**Cc:** Lane, Myke ; Meador, Tasha  
**Subject:** Williams clean-ups

We will finish the clean-up on the Jicarilla 93 #15 today and start the Jicarilla 93 #12A on Monday. Please let me know if you have any questions.

Thanks,

Johnny Stinson  
Gen. Manager/ Adobe Contractors  
Office: (505)632-1486  
Mobile: (505)320-6076  
[johnny@adobecontractorsinc.com](mailto:johnny@adobecontractorsinc.com)

4/24/2009

**Meador, Tasha**

---

**From:** johnny@adobecontractorsinc.com  
**Sent:** Friday, May 01, 2009 8:39 AM  
**To:** Meador, Tasha ; Lane, Myke  
**Subject:** FW: Williams clean-ups

I forgot to copy you guys on this

---

**From:** johnny@adobecontractorsinc.com [mailto:johnny@adobecontractorsinc.com]  
**Sent:** Friday, May 01, 2009 8:38 AM  
**To:** Brandon Powell  
**Subject:** Williams clean-ups

Brandon,  
We will finish the clean-up on the Jicarilla 93 #12A today and the Rosa Unit #257A today or Monday We will start the Jaeco 26-3 22#2A early next week. Let me know if you have any questions.

Thanks,

Johnny Stinson  
Gen. Manager/ Adobe Contractors  
Office: (505)632-1486  
Mobile: (505)320-6076  
[johnny@adobecontractorsinc.com](mailto:johnny@adobecontractorsinc.com)

5/14/2009





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: Jicarilla 93 #012A  
Latitude (DDD MM.MMM'): 36° 31' 40.04155  
Longitude (DDD MM.MMM'): 107° 08' 19.14598  
Unit Letter (1/4, 1/4): L  
Section: 34  
Township: T27N  
Range: R03W  
County: RIO ARRIBA  
State: NEW MEXICO

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

WILLIAMS COMPANIES, INC.

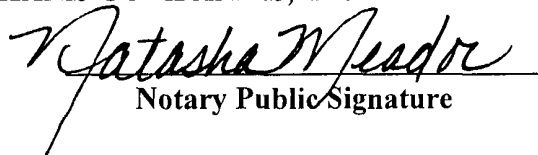
  
Michael K. Lane EH&S Specialist

5/26/09  
Date

STATE OF NEW MEXICO  
COUNTY OF SAN JUAN

This document was acknowledged before me on this 26 day of May 2009  
by Michael K Lane, EH&S Specialist of WILLIAMS COMPANIES, INC.



  
Notary Public Signature

My Commission Expires  
11/30/2011

NATASHA MEADOR  
Notary Name Printed

WILLIAMS PRODUCTION COMPANY

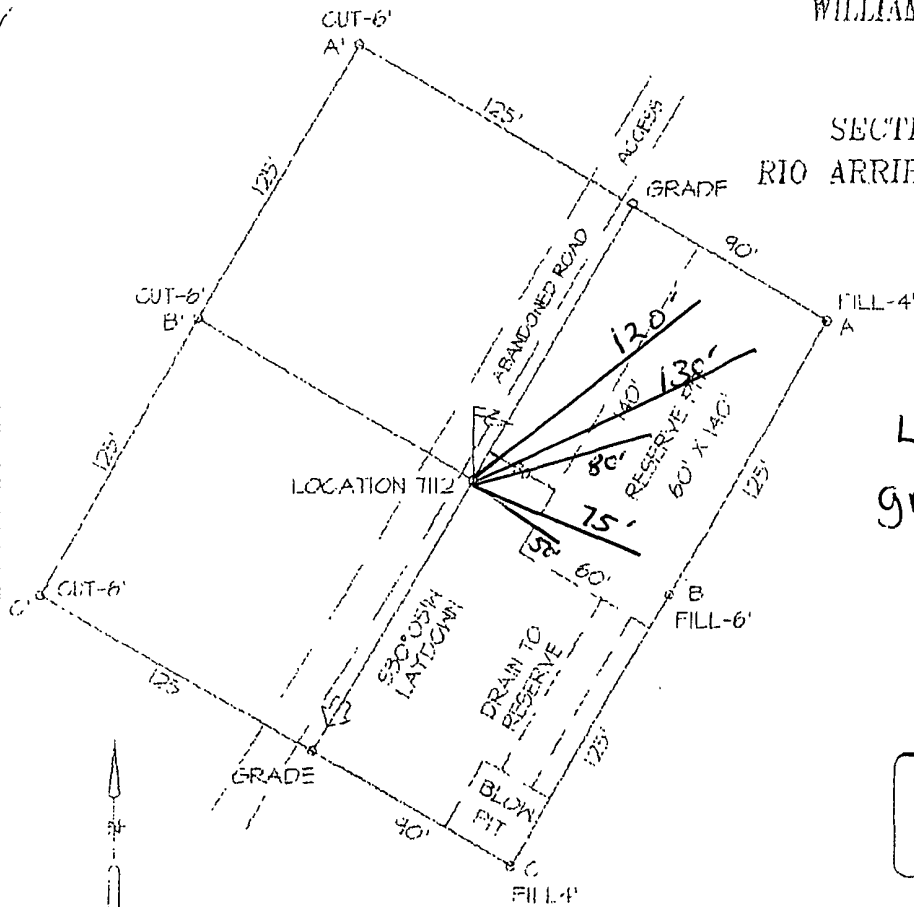
JICARILLA 93 #12A

1850 FSL & 870 FWL

SECTION 34 T27N R3W NMPM

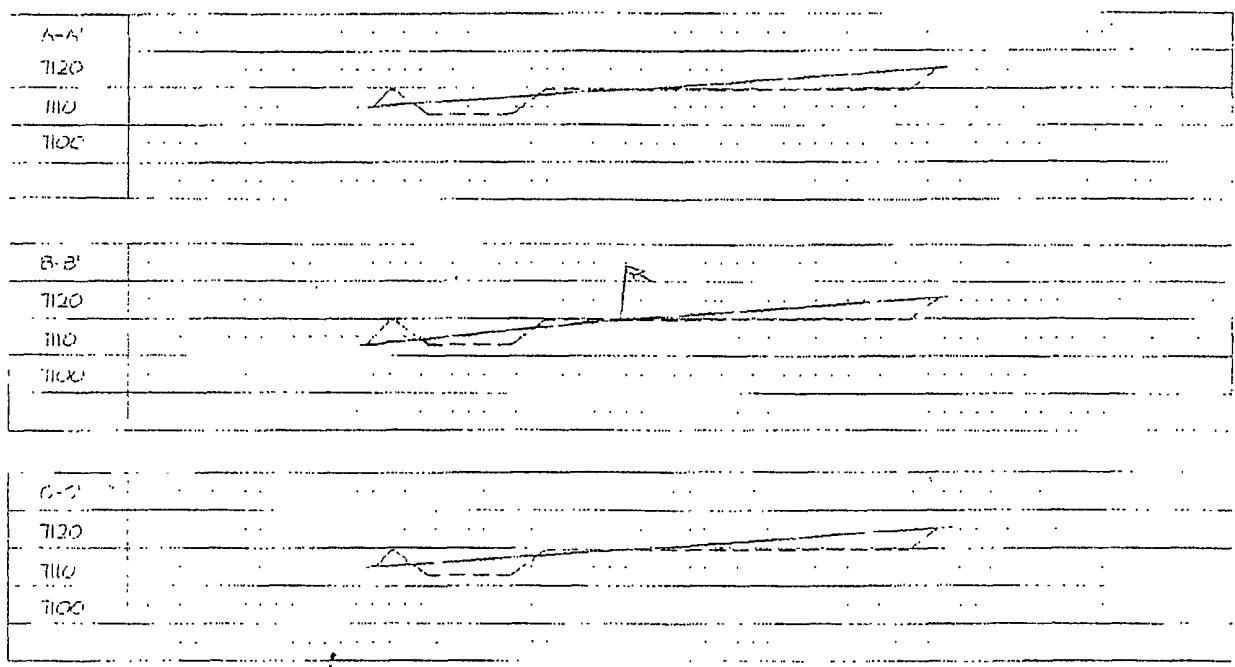
RIO ARriba COUNTY, NEW MEXICO

ELEVATION: 7112



Location of  
Grab Samples

LATITUDE: 36°31'40" N  
LONGITUDE: 107°08'17" W  
VERT. DATUM: NAD 1927





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

Client:	Williams Production	Project #:	04108-0003
Sample ID:	Jic 93 #12A	Date Reported:	05-21-09
Laboratory Number:	50091	Date Sampled:	05-12-09
Chain of Custody No:	7070	Date Received:	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-18-09
Preservative:	Cool	Date Analyzed:	15-19-09
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: **Pit Closer**

Analyst

Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Williams Production	Project #:	04108-0003
Sample ID:	Jic 93 #12A	Date Reported:	05-21-09
Laboratory Number:	50091	Date Sampled:	05-12-09
Chain of Custody:	7070	Date Received:	05-14-09
Sample Matrix:	Soil	Date Analyzed:	05-19-09
Preservative:	Cool	Date Extracted:	05-18-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.0	0.9
Toluene	1.8	1.0
Ethylbenzene	2.2	1.0
p,m-Xylene	4.0	1.2
o-Xylene	2.6	0.9
Total BTEX	12.6	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Pit Closer

Analyst

Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	Williams Production	Project #:	04108-0003
Sample ID:	Jic 93 #12A	Date Reported:	05-21-09
Laboratory Number:	50091	Date Sampled:	05-12-09
Chain of Custody No:	7070	Date Received:	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-18-09
Preservative:	Cool	Date Analyzed:	05-18-09
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	49.1	10.3

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: Pit Closer.

Analyst

Review



## Chloride

Client:	Williams Production	Project #:	04108-0003
Sample ID:	Jic 93 #12A	Date Reported:	05-21-09
Lab ID#:	50091	Date Sampled:	05-12-09
Sample Matrix:	Soil	Date Received:	05-14-09
Preservative:	Cool	Date Analyzed:	05-19-09
Condition:	Intact	Chain of Custody:	7070

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

Total Chloride

15

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: Pit Closer.

Analyst

Review



EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	15-19-09 QA/QC	Date Reported:	05-21-09
Laboratory Number:	50097	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	15-19-09
Condition:	N/A	Analysis Requested:	TPH

	11-Cal Date	11-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.6448E+002	9.6486E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0427E+003	1.0431E+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

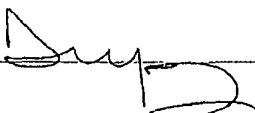
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

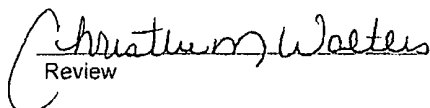
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	244	97.6%	75 - 125%
Diesel Range C10 - C28	ND	250	245	98.0%	75 - 125%

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 50047 - 50051, 50090 - 50092, 50095, and 50097.

Analyst 

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-19-BT QA/QC	Date Reported:	05-21-09
Laboratory Number:	50097	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-19-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	E-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
			Accept Range 0 - 15%		
Benzene	6.7553E+006	6.7689E+006	0.2%	ND	0.1
Toluene	6.3016E+006	6.3142E+006	0.2%	ND	0.1
Ethylbenzene	5.3676E+006	5.3783E+006	0.2%	ND	0.1
p,m-Xylene	1.4043E+007	1.4071E+007	0.2%	ND	0.1
o-Xylene	5.2234E+006	5.2338E+006	0.2%	ND	0.1

Duplicate Conc (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.9	1.9	0.0%	0 - 30%	0.9
Toluene	5.6	5.5	1.8%	0 - 30%	1.0
Ethylbenzene	9.1	8.2	9.9%	0 - 30%	1.0
p,m-Xylene	17.8	16.9	5.1%	0 - 30%	1.2
o-Xylene	10.2	9.3	8.8%	0 - 30%	0.9

Spike Conc (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.9	50.0	50.6	97.5%	39 - 150
Toluene	5.6	50.0	53.2	95.7%	46 - 148
Ethylbenzene	9.1	50.0	54.7	92.6%	32 - 160
p,m-Xylene	17.8	100	113	96.3%	46 - 148
o-Xylene	10.2	50.0	58.8	97.7%	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 50047 - 50052, 50090 - 50092, and 50097.

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:	05-19-09
Laboratory Number:	05-18-TPH.QA/QC 50100	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	05-18-09
Preservative:	N/A	Date Extracted:	05-18-09
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	05-01-09	05-18-09	1,620	1,720	6.2%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	10.3

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	20.7	23.3	12.6%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	20.7	2,000	1,780	88.1%	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 50080 - 50085, 50090 - 50092 and 50100.

Analyst

Review

# CHAIN OF CUSTODY RECORD

7070

Client: <i>Williams Production</i>			Project Name / Location: <i>PIT closer.</i>				ANALYSIS / PARAMETERS													
Client Address: <i>1721 Smail Ave</i>			Sampler Name: <i>JOHN STINSON</i>				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.:			Client No.: <i>04108 - 003</i>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative														
<i>JACCO 25322A</i>	<i>5-12-09</i>	<i>1:50 PM</i>	<i>50090</i>	<i>Soil</i> Sludge Aqueous																
<i>JIC 93 #1212</i>	<i>5-12-09</i>	<i>2:55 PM</i>	<i>50091</i>	<i>Soil</i> Sludge Aqueous																
<i>QSA 140 PC</i>	<i>5-11-09</i>	<i>2:00 PM</i>	<i>50092</i>	<i>Soil</i> Sludge Aqueous																
				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
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				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
				Soil Sludge Aqueous																
Relinquished by: (Signature) <i>Kenneth Shute</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
Relinquished by: (Signature)						Received by: (Signature)														
Relinquished by: (Signature)						Received by: (Signature)														



## CLOSURE REPORT ATTACHMENTS

93-12A

**3/8/2009 (pit previously  
frozen )**

- 1 Date & How free standing liquids removed in following manner: Majority of liquids removed by vacuum truck and hauled to Basin Disposal, Permit # NM 01-0005
- 3 Return receipt sent & received from surface owner: Copy Attached
- 4 Rig off location on following date: 4/17/2009  
Pit covered on following date: 5/11/2009  
Reseeding started/scheduled for following date: Spring 2009
- 6 Pit liner removed on following date: 5/8/2009  
Pit liner removed by following company: Adobe Construction  
Pit liner removed in following manner: Cut liner above mud level by manually  
and/or mechanically cutting liner. Removed all anchored material.  
Facility where Pit liner disposed: S.J. Regional Landfill, NMED Permit SWM-052426
- 7 Solidification process accomplished in following manner: Adobe construction  
used combination of natural drying & mechanical mixing. Pit contents were mixed with  
non-waste, earthen material to a consistency that is safe & stable. The mixing ratio has  
not exceeded 3 parts non-waste to 1 part pit contents.
- 8 Five point composite sample provided: Collected by Abode for analysis at Envirotech
- 9 Testing of earth by following company: Envirotech, Inc.  
Material & method used for solidification, non-waste earthen material:  
Grading & backfilling area with approximately 4' of soils and earthen materials recovered during  
site construction, to one foot consisting of salvaged topsoil.
- 10 Re-contouring to match surrounding geography done in following manner (using BMP's):  
Reestablish drainage and contours to approximately match previous topography meeting  
Conditions of Approval in APD and as specified by Surface Management Agency Inspectors.
- 11 Sundry (C103) to NMOCD when area 1st seeded: Pending  
Seed Mix Used: Seed mix specified in Condition of Approval

## CLOSURE REPORT ATTACHMENTS

**12** Date pit was covered: 5/11/2009  
Date 1st seeding took place: Spring following covering of pit  
Date 2nd seeding took place: Spring following covering of pit  
Date 70% coverage of native perennial vegetation accomplished: To be Determined  
Date C103 submitted to NMOCD (stating To be Determined  
2 successive vegetative seasons accomplished)

**13** Company setting steel marker on site: Adobe Construction  
Date marker set: Pending  
Type cmt & depth of cmt to place marker: 2 sx Pre-mixed concrete @ 4' depth  
Type of marker used: (check one) 

<input checked="" type="checkbox"/> Post	<input type="checkbox"/> Plate	<input checked="" type="checkbox"/> X
--	--------------------------------	---------------------------------------

  
Pertinent information on marker (operator, lease, well name/#, S-T-R-UL):

### Per Operated Well Information

Does marker state it is an onsite pit burial location? Yes once installed

**Note: Steel markers not required when closure by waste excavation & removal**

### Attached information (IF Release Occurred):

**\*\*** Sample results from Form C141 (Release Notification & Corrective Action) Attached  
Date & time release occurred: NA  
**\*\*** C105 (Completion Rpt) w/Applicable Pit Information Attached

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: JICARILL 93 # 12A

API #: 30-039-29804

Pit Type: ☒ Drilling ☐ Workover ☐ Cavitation Inspection: ☒ Daily ☐ Weekly ☐ 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: GLENN GATHINGS

Printed Name: GLENN GATHINGS

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

Date: 12/10/2008 Phone: (505) 215-9201

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: JICARILL 93 # 12A

API #: 30-039-29804

Pit Type: ☒ Drilling ☐ Workover ☐ Cavitation Inspection: ☒ Daily ☐ Weekly ☐ 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: W.MOCK		
Printed Name: W.MOCK		
Title: DRILLING CONSULTANT (T.D.C.I.)		
Date: 12/11/2008 Phone: (505) 215-9201		

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: JICARILL 93 # 12A

API #: 30-039-29804

Pit Type: ☒ Drilling ☐ Workover ☐ Cavitation Inspection: ☒ Daily ☐ Weekly ☐ 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: W.MOCK		
Printed Name: W.MOCK		
Title: DRILLING CONSULTANT (T.D.C.I.)		
Date: 12/12/2008 Phone: (505) 215-9201		

Record Retention: Submit with Closure  
File: EH&S

505-634-4200 / 505-634-4205 fax





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> 93-12 A	<b>API #:</b> 30-039-29804
-------------------------------	----------------------------

93-12-A

<b>Pit Type:</b> X <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input type="checkbox"/> Daily (Rig) X <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Re12-29-08
Pit Properly Fenced	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input type="checkbox"/> Yes X <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit has drilling liquids		
Inspector Signature: Tommy Clements		
Printed Name: Tommy Clements		
Title: Tech I		
Date: Phone:		

Record Retention: Submit with Closure  
File: EH&S Well Files



The Williams logo, featuring the word "Williams" in a stylized, italicized font with a swoosh underline.



The Williams logo, featuring the word "Williams" in a stylized, italicized font with a swoosh underline.

The logo for William's, featuring the brand name in a bold, italicized serif font, with a stylized swoosh graphic above and below the text.

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: 93-12 A</b>	<b>API #: 30-039-29804</b>
-------------------------------	----------------------------

93-12-A

<b>Pit Type:</b> X <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input type="checkbox"/> Daily (Rig) X <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No if No, Report to EH&S immediately	Date / Time 3/28/2009
Pit Properly Fenced	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Flare Pit free of liquids	x <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Art Alsup		
Printed Name: Art Alsup		
Title: Tech I		
Date: Phone:		

Record Retention: Submit with Closure  
File: EH&S Well Files

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)					38 GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						KIRTLAND	1448'	
						FRUITLAND COAL	3121'	
						PICTURED CLIFFS	3388'	
						CLIFFHOUSE	5167'	
						MENEFEE	5320'	
						POINT LOOKOUT	5681'	
						MANCOS	6060'	
						DAKOTA	7899'	



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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> 93-12 A	<b>API #:</b> 30-039-29804
-------------------------------	----------------------------

93-12-A

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

Pit Liner intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time 4/8/2009
Pit Properly Fenced	<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	<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: Art Alsup		
Printed Name: Art Alsup		
Title: Tech I		
Date: Phone:		

Record Retention: Submit with Closure  
File: EH&S Well Files

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**Temporary Pit Inspection**

**FACILITY INFORMATION**

<b>Facility Name: 93-12 A</b>	<b>API #: 30-039-29804</b>
-------------------------------	----------------------------

93-12-A

<b>Pit Type:</b> X <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input type="checkbox"/> Daily (Rig) X <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time 4/16/2009
Pit Properly Fenced	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Flare Pit free of liquids	x <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Art Alsup		
Printed Name: Art Alsup		
Title: Tech I		
Date: Phone:		

Record Retention: Submit with Closure  
File: EH&S Well Files

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**Temporary Pit Inspection**

**FACILITY INFORMATION**

<b>Facility Name:</b> 93-12 A	<b>API #:</b> 30-039-29804
-------------------------------	----------------------------

93-12-A

<b>Pit Type:</b> X <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input type="checkbox"/> Daily (Rig) X <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time 4/23/2009
Pit Properly Fenced	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Flare Pit free of liquids	x <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	

Comments:	
Inspector Signature: Art Alsup	
Printed Name: Art Alsup	
Title: Tech I	
Date:	Phone:

Record Retention: Submit with Closure  
File: EH&S Well Files

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### Temporary Pit Inspection

#### FACILITY INFORMATION

<b>Facility Name:</b> 93-12 A	<b>API #:</b> 30-039-29804
-------------------------------	----------------------------

93-12-A

<b>Pit Type:</b> X <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	<b>Inspection:</b> <input type="checkbox"/> Daily (Rig) X <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time 5/1/2009
Pit Properly Fenced	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes x <input type="checkbox"/> No	
Flare Pit free of liquids	x <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Art Alsup		
Printed Name: Art Alsup		
Title: Tech I		
Date: Phone:		

Record Retention: Submit with Closure  
File: EH&S Well Files

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a TYPE OF WELL <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER						5 LEASE DESIGNATION AND LEASE NO. Jicarilla contract #93	
b TYPE OF COMPLETION <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER						6. IF INDIAN, ALLOTTEE OR Jicarilla Apache Nation	
2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY						7 UNIT AGREEMENT NAME	
3 ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208						8. FARM OR LEASE NAME, WELL NO Jicarilla "93" #12A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface. 1850' FSL & 870' FWL, Sec 34 (L), T27N, R3W At top production interval reported below : At total depth						9 API WELL NO 30-039-29804	
						10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde	
						11 SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 34, T27N, R3W	
						12 COUNTY OR Rio Arriba	13 STATE New Mexico
15 DATE SPUDDED 11-30-08	16 DATE T.D. REACHED 12-9-08	17 DATE COMPLETED (READY TO PRODUCE) 1-20-09	18 ELEVATIONS (DK, RKB, RT, GR, ETC)* 7112' GR	19 ELEVATION CASINGHEAD			
20 TOTAL DEPTH, MD & TVD 6426' MD		21 PLUG, BACK T.D., MD & TVD 6360' MD	22 IF MULTICOMP, HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS x	CABLE TOOLS	
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Blanco Mesa Verde 5553' - 6264'						25 WAS DIRECTIONAL SURVEY MADE YES	
26 TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron						27 WAS WELL CORED NO	
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		
9-5/8", K-55		36.0#	338'	12-1/4"	200 SX - SURFACE		
7", K-55		23.0#	4150'	8-3/4"	450 SX - 2250' (CBL)		
29 LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	
4-1/2", K-55, 11 6#		6408'	165 SX - 5400' (CBL)		2-3/8", 4 7# J-55	6270'	
31 PERFORATION RECORD (Interval, size, and number)				32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC			
CH/MEN. 5553' - 5924'. Total of 64, 0.38" holes  P.L.O. 5959' - 6264, Total of 67, 0.34" holes				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				5553' - 5924' CH/MEN	Fraced with 9380# 14/30 LiteProp 125 followed with 3070# brown sand		
				5959' - 6264' P.L.O.	Fraced with 18680# 14/30 Lite prop 125 followed with 3070# brown sand		
33 PRODUCTION							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
						SI - waiting tie in	
DATE OF TEST 1-19-09	TESTED 10 hrs	CHOKE SIZE 2"	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
FLOW TBG PRESS 0 oz	CASING PRESSURE 3 lb	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF 1065 p/day	WATER - BBL	OIL GRAVITY-API (CORR)
34 DISPOSITION OF GAS (Solid, used for fuel, vented, etc) TO BE SOLD						TEST WITNESSED BY Weldon Higgins	
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 1-21-09



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. <div style="text-align: right;">30-039-29804</div>								
		2. Type of Lease <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED/INDIAN								
		3. State Oil & Gas Lease No. Jicarilla Contract #93								
<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 <div style="text-align: right;">Jicarilla Apache Nation</div>								
		6. Well Number:  <div style="text-align: right;">Jicarilla "93" #12A</div>								
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    WILLIAMS 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	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released 1/20/2009		16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)			
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	DEPTH SET	PACKER SET		
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	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - ( <i>Corr.</i> )				
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    Attached										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude    36.304004155    Longitude    -107.081914598    NAD 1927    X1983										
<i>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</i>										
Signature <i>Jasha M. Lane</i>		Name <i>Michael K. Lane</i>		Title <i>EH&amp;S Specialist</i>		Date <i>2-2-10</i>				
E-mail Address:    myke.lane@williams.com										

**WILLIAMS PRODUCTION**  
**TEMP PIT CLOSURE REPORT ADDENDUM**  
**Jicarilla 93 #12A**

Req #

- 1** Date & How free standing liquids removed in following manner: 3/8/2009  
Liquids removed by vacuum truck and hauled to Basin Disposal, Permit # NM 01-0005
- 
- 3** Return receipt sent & received from surface owner: Copy Attached
- 
- 4** Rig off location on following date: 1/20/2009  
Pit covered on following date: 5/1/2009  
Reseeding started/scheduled for following date: Spring/Fall 2009  
Date and mix to follow BLM/USFS COAs in APD per BLM:FFO/NMOCD MOU dated 5/4/09.
- 
- 6** Pit liner removed on following date: 4/27/2009  
Pit liner removed by following company: Adobe Construction  
  
Pit liner removed in following manner:  
Cut liner above mud level after stabilization by manually &/or mechanically cutting liner. Removed all anchored material on date given.  
Facility where Pit liner disposed: S.J. Regional Landfill, NMED Permit SWM-052426
- 
- 7** Solidification process accomplished in following manner:  
  
Adobe construction used combination of natural drying & mechanical mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is safe & stable. The mixing ratio has not exceeded 3 parts non-waste to 1 part pit contents.
- 
- 8** Five point composite sample provided: Envirotech Results Attached
- 
- 9** Testing of earth by following company: Envirotech, Inc.  
  
Material & method used for solidification, non-waste earthen material:  
Grading & backfilling area with approximately 4' of soils and earthen materials recovered during site construction, to one foot consisting of topsoil.
- 
- 10** Re-contouring to match surrounding geography done in following manner (using BMP's):



### Jicarilla 93 #12A

Reestablish drainage and contours to approximately match previous topography meeting Conditions of Approval in APD and as specified by Surface Management Agency Inspectors.

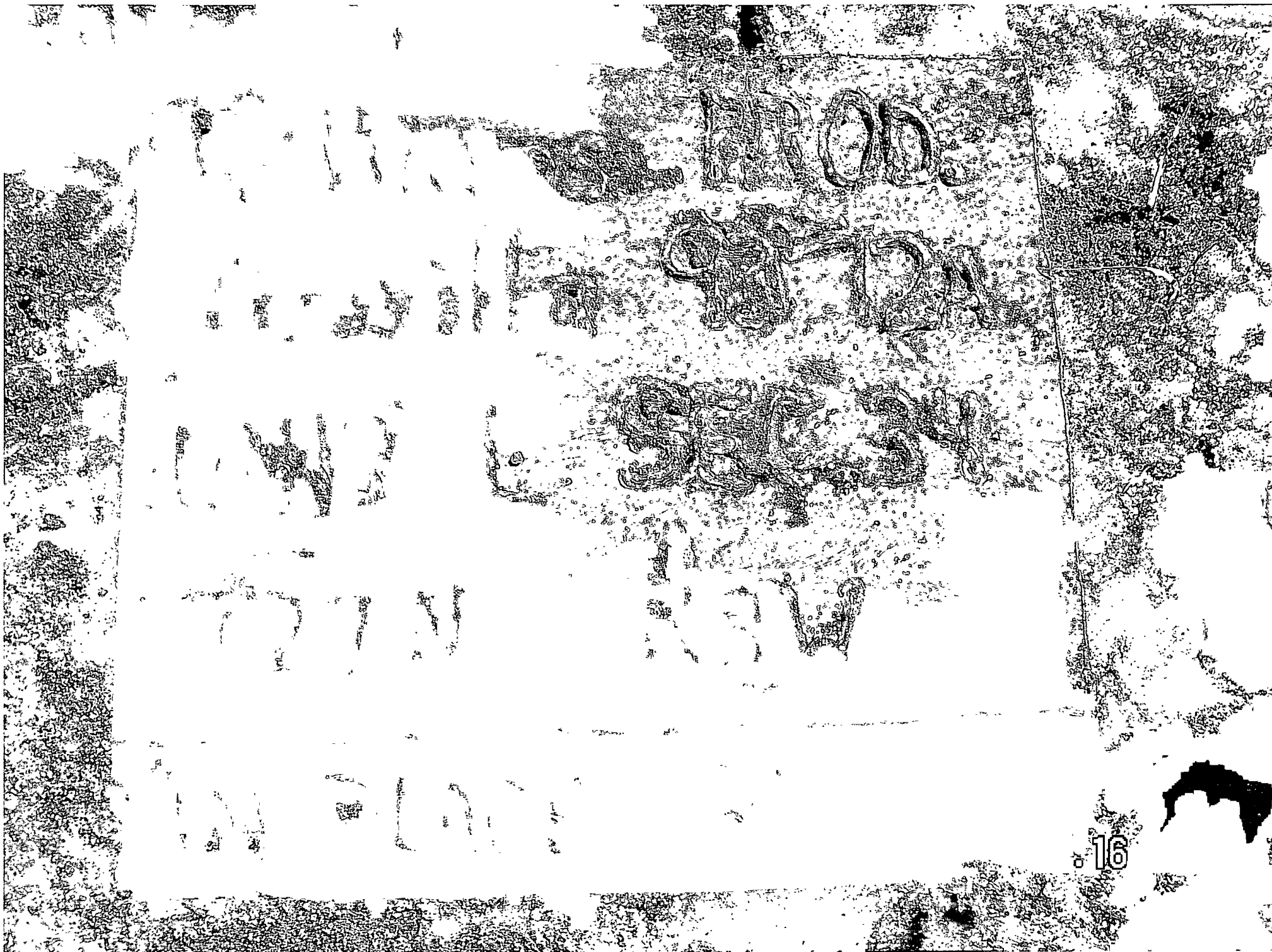
---

- 11 Sundry (C103) to NMOCD when area seeded and seed mix used:  
Williams will comply with Surface Management Agency reseeding requirements in COAs of the APD for the referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.
- 

- 12 Date pit was covered: 5/1/2009
- 13 Company setting steel marker on site: Adobe Construction
- Date marker set: 10/13/2009
- Type cmt & depth of cmt to place marker: 2 sx Pre-mixed concrete @ 4' depth
- Type of marker used: (check one) Plate
- Pertinent information on marker (operator, lease, well name/#, S-T-R-UL):  
Williams Production, Jicarilla 93 #12A , Unit L, Sec. 34; T27N; R3W, in place burial
- 

#### Attached information :

- \*\* Sample results from Form C141 (Release Notification & Corrective Action) Attached
- Date & time release occurred: NA
- \*\* C105 (Completion Rpt) w/Applicable Pit Information Attached
-





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

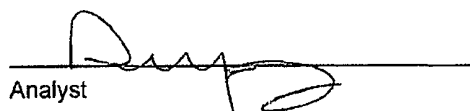
Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Laboratory Number:	52674	Date Sampled:	12-10-09
Chain of Custody No:	8466	Date Received:	12-11-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-14-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.4	0.1
Total Petroleum Hydrocarbons	2.4	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: Jicarilla 93 #12A.

  
Analyst

  
Review



EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-14-09 QA/QC	Date Reported:	12-15-09
Laboratory Number:	52666	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-14-09
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0374E+003	1.0378E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0698E+003	1.0702E+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	18.1	16.0	11.6%	0 - 30%
Diesel Range C10 - C28	14.5	14.4	0.7%	0 - 30%

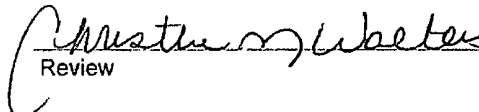
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recover	Accept Range
Gasoline Range C5 - C10	18.1	250	264	98.5%	75 - 125%
Diesel Range C10 - C28	14.5	250	258	97.4%	75 - 125%

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 52666 - 52675.

Analyst 

Review 



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Laboratory Number:	52674	Date Sampled:	12-10-09
Chain of Custody:	8466	Date Received:	12-11-09
Sample Matrix:	Soil	Date Analyzed:	12-14-09
Preservative:	Cool	Date Extracted:	12-11-09
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	

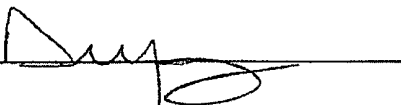
ND - Parameter not detected at the stated detection limit

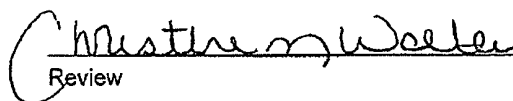
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.1 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	98.0 %

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: Jicarilla 93 #12A.

  
Analyst

  
Review



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	12-14-BTEX QA/QC	Date Reported:	12-15-09
Laboratory Number:	52666	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-14-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RE	C-Cal RE	%Diff	Blank Conc	Detect Limit
		Accept. Range	0 - 15%		
Benzene	1.5771E+006	1.5803E+006	0.2%	ND	0.1
Toluene	1.4639E+006	1.4669E+006	0.2%	ND	0.1
Ethylbenzene	1.3273E+006	1.3299E+006	0.2%	ND	0.1
p,m-Xylene	3.3752E+006	3.3820E+006	0.2%	ND	0.1
o-Xylene	1.2490E+006	1.2515E+006	0.2%	ND	0.1

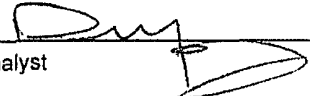
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	2.4	2.2	8.3%	0 - 30%	0.9
Toluene	17.9	17.4	2.8%	0 - 30%	1.0
Ethylbenzene	9.6	9.4	2.1%	0 - 30%	1.0
p,m-Xylene	264	258	2.1%	0 - 30%	1.2
o-Xylene	118	112	5.3%	0 - 30%	0.9

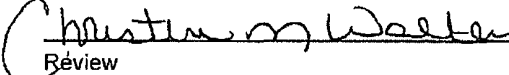
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.4	50.0	50.4	96.2%	39 - 150
Toluene	17.9	50.0	64.9	95.6%	46 - 148
Ethylbenzene	9.6	50.0	54.6	91.6%	32 - 160
p,m-Xylene	264	100	355	97.7%	46 - 148
o-Xylene	118	50.0	164	97.5%	46 - 148

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 52666 - 52675.**

Analyst 

Review 



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Laboratory Number:	52674	Date Sampled:	12-10-09
Chain of Custody No:	8486	Date Received:	12-11-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-11-09
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	12.8	9.0

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: Jicarilla 93 #12A

Analyst

Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	12-15-09
Laboratory Number:	12-11-TPH.QA/QC 52668	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	12-11-09
Preservative:	N/A	Date Extracted:	12-11-09
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	12-11-09	12-11-09	1,610	1,670	3.7%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	9.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	103	77.1	25.0%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	103	2,000	2,500	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 52668-52675

Analyst

Christine M. Walters  
Review





## Chloride

Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Lab ID#:	52674	Date Sampled:	12-10-09
Sample Matrix:	Soil	Date Received:	12-11-09
Preservative:	Cool	Date Analyzed:	12-15-09
Condition:	Intact	Chain of Custody:	8466

### Parameter

### Concentration (mg/Kg)

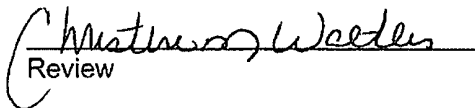
**Total Chloride**

**110**

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: **Jicarilla 93 #12A**

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

8466

Client: <u>W.P.K.</u>			Project Name / Location: <u>Jicarilla 93 # 12A</u>			ANALYSIS / PARAMETERS													
Client Address: <u>Myke Lane</u>			Sampler Name: <u>Gene Shultz</u>			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.:			Client No.: <u>04108-0003</u>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
<u>Blow pit</u>	<u>12/10/09</u>	<u>3:30 pm</u>	<u>52674</u>	<u>Soil Solid</u>	<u>1</u>														
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
				<u>Soil Solid</u>															
				<u>Sludge Aqueous</u>															
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>12/11/09</u>	Time <u>8:22 AM</u>	Received by: (Signature) <u>[Signature]</u>					Date <u>12/11/09</u>	Time <u>8:22</u>						
Relinquished by: (Signature)							Received by: (Signature)												
Relinquished by: (Signature)							Received by: (Signature)												



**envirotech**  
Analytical Laboratory

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

RCVD JUN 7 '12  
OIL CONS. DIV.

DIST. 3  
Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

**District I**

1628 N. French Dr., Hobbs, NM 88240

**District II**

1701 W. Grand Avenue, Artesia, NM 88210

**District III**

1600 Rio Brazos Rd., Artesia, NM 87410

**District IV**

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.

Santa Fe, NM 87505

*Permit # 1937*

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

* API Number <b>30-039-29804</b>		* Pool Code <b>72319</b>	* Pool Name <b>BLANCO MESA VERDE</b>
* Property Code	* Property Name <b>JICARILLA 93</b>		* Well Number <b>12A</b>
* OGRID No. <b>120782</b>	* Operator Name <b>WILLIAMS PRODUCTION COMPANY</b>		* Elevation <b>7112</b>

**10 Surface Location**

UT or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>L</b>	<b>34</b>	<b>27N</b>	<b>3W</b>		<b>1850</b>	<b>SOUTH</b>	<b>870</b>	<b>WEST</b>	<b>RIO ARriba</b>

**11 Bottom Hole Location If Different From Surface**

UT or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
* Dedicated Acres <b>320 Ac. (W/2)</b>	* Lot or TeM	* Consolidation Code		* 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

	<b>16</b> 		<b>5277.36</b>	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information furnished herein is true and complete to the best of my knowledge and belief.  Signature: _____  Printed Name: _____  Title and Exact Address: _____  Date: _____
	<b>34</b>			
	<b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was placed 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.  Date of Survey: <b>AUGUST 25, 2005</b> Signature: <i>[Signature]</i> Registered Professional Land Surveyor New Mexico 9972			