

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

3598

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

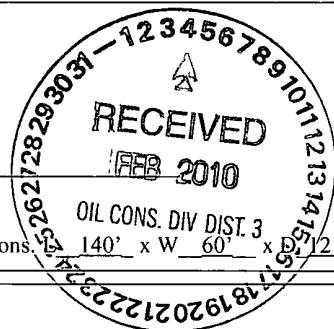
- Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted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

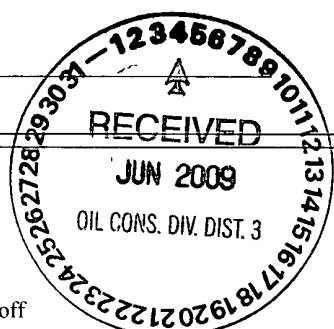
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's 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 92 #2A
API Number: 30-039-29944 OCD Permit Number: _____
U/L or Qtr/Qtr: D Section: 29 Township: 27N Range: 03W County: Rio Arriba
Center of Proposed Design Latitude: 36.548622 Longitude: -107.173653 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: 18,000 bbl Dimensions: 140' x W 60' x D 2'



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

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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 Per Tribal Specifications

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: _____

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 H₂S, 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 indentify 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: 4/13/2009

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

On-site Closure Location Latitude 36.548622 Longitude -107.173653 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: 6/4/09

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

• **Meador, Tasha**

From: johnny@adobecontractorsinc.com
Sent: Monday, April 06, 2009 9:32 AM
To: Brandon Powell
Cc: Perkins, Holly (E&P), Meador, Tasha (E&P)
Subject: Williams clean-ups

Brandon,
We have finished the clean-up on the Jicarilla 92 #17A and have started the Jicarilla 92 #2A. We have also started the Cox Canyon #7C clean-up. Our next clean-up will be the Jicarilla 93 #15. We will start it later this 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

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 92 #002A
Latitude (DDD MM.MMM'): 36.548622
Longitude (DDD MM.MMM'): 107.173653
Unit Letter (1/4, 1/4): D
Section: 29
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.

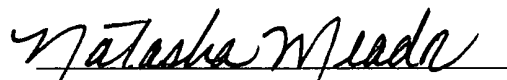
WILLIAMS COMPANIES, INC.


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
Michael K Lane, EH&S Specialist of WILLIAMS COMPANIES, INC.

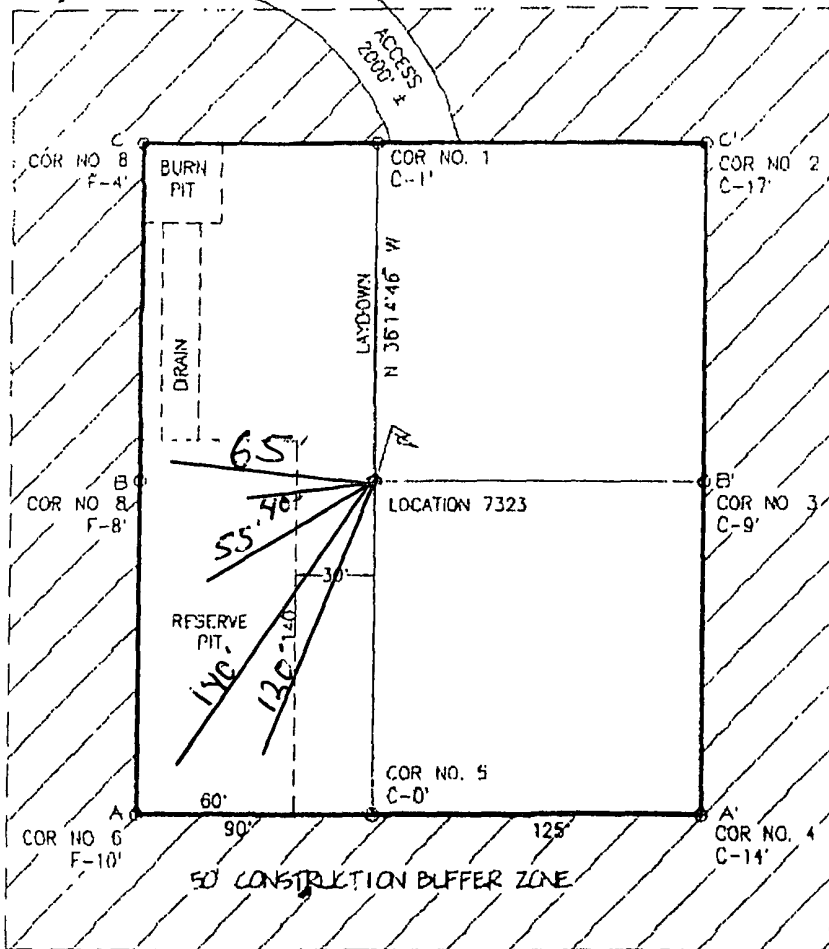

Notary Public Signature

My Commission Expires
11/30/2011

NATASHA MEADOR
Notary Name Printed

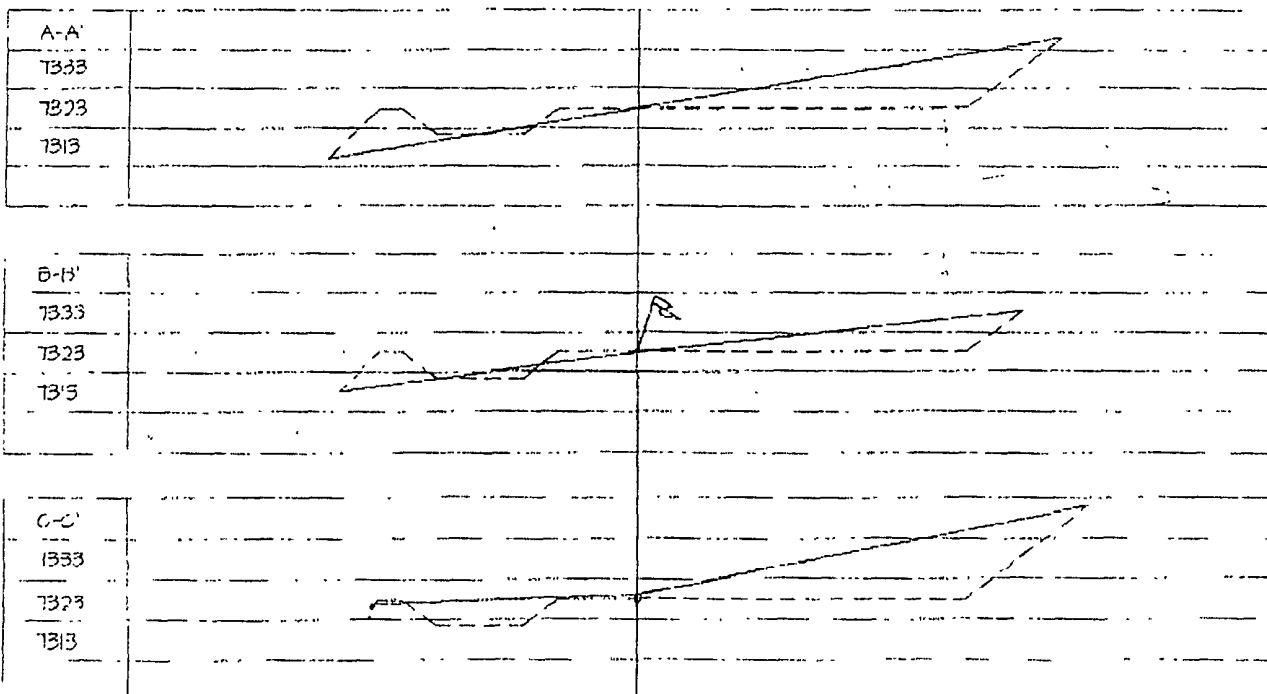


WILLIAMS PRODUCTION COMPANY
 JICARILLA 92 #2A
 1095 FNL & 1175 FWL
 SECTION 29 T27N R3W NMPM
 RIO ARRIBA COUNTY, NEW MEXICO
 ELEVATION: 7323



Location of
 grab samples

LATITUDE: 36°32'55" N
 LONGITUDE: 107°10'23" W
 NGS 84
 VERT DATUM: NAD 1921





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

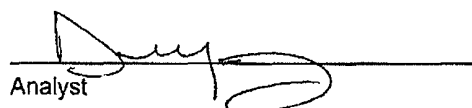
Client:	Williams	Project #:	04108-0003
Sample ID:	Jic 92 2A	Date Reported:	05-21-09
Laboratory Number:	50115	Date Sampled:	05-15-09
Chain of Custody No:	7081	Date Received:	05-18-09
Sample Matrix	Soil	Date Extracted:	05-19-09
Preservative:		Date Analyzed:	05-20-09
Condition:	Intact	Analysis Requested:	8015 TPH

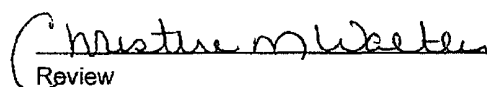
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Jicarilla 92-2A**


Analyst


Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-20-09 QA/QC	Date Reported:	05-21-09
Laboratory Number:	50103	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-20-09
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RE	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0415E+003	1.0420E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0191E+003	1.0195E+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%

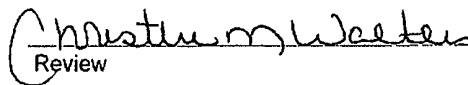
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	244	97.6%	75 - 125%
Diesel Range C10 - C28	ND	250	245	98.0%	75 - 125%

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 50103, 50115 - 50119, 50124 - 50125, and 50127.

Analyst 


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Williams	Project #:	04108-0003
Sample ID:	Jic 92 2A	Date Reported:	05-21-09
Laboratory Number:	50115	Date Sampled:	05-15-09
Chain of Custody:	7081	Date Received:	05-18-09
Sample Matrix:	Soil	Date Analyzed:	15-20-09
Preservative:		Date Extracted:	05-19-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.1	0.9
Toluene	9.7	1.0
Ethylbenzene	11.4	1.0
p,m-Xylene	21.7	1.2
o-Xylene	13.3	0.9
Total BTEX	62.2	

ND - Parameter not detected at the stated detection limit

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

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

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

Comments: Jicarilla 92-2A

Analyst

Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	05-20-BT QA/QC	Date Reported:	05-21-09
Laboratory Number	50103	Date Sampled:	N/A
Sample Matrix	Soil	Date Received	N/A
Preservative:	N/A	Date Analyzed:	15-20-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	Cal. R ²	Cal. R ²	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	6.8323E+006	6.8460E+006	0.2%	ND	0.1
Toluene	6.4136E+006	6.4265E+006	0.2%	ND	0.1
Ethylbenzene	5.6389E+006	5.6502E+006	0.2%	ND	0.1
p,m-Xylene	1.4663E+007	1.4692E+007	0.2%	ND	0.1
o-Xylene	5.4665E+006	5.4775E+006	0.2%	ND	0.1

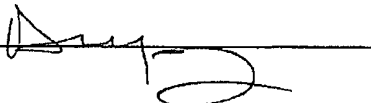
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept. Range	Detect. Limit
Benzene	4.7	4.8	2.1%	0 - 30%	0.9
Toluene	8.4	8.3	1.2%	0 - 30%	1.0
Ethylbenzene	10.4	9.5	8.7%	0 - 30%	1.0
p,m-Xylene	19.9	18.9	5.0%	0 - 30%	1.2
o-Xylene	12.3	11.4	7.3%	0 - 30%	0.9

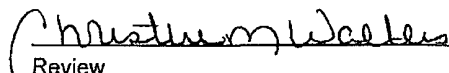
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept. Range
Benzene	4.7	50.0	53.4	97.6%	39 - 150
Toluene	8.4	50.0	56.0	95.9%	46 - 148
Ethylbenzene	10.4	50.0	56.0	92.7%	32 - 160
p,m-Xylene	19.9	100	116	96.3%	46 - 148
o-Xylene	12.3	50.0	60.9	97.8%	46 - 148

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 50103, 50115 - 50119, 50124 - 50125, and 50127.

Analyst 


Review



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

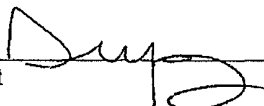
Client:	Williams	Project #:	04108-0003
Sample ID:	Jic 92 2A	Date Reported:	05-21-09
Laboratory Number:	50115	Date Sampled:	05-15-09
Chain of Custody No:	7081	Date Received:	05-18-09
Sample Matrix:	Soil	Date Extracted:	05-20-09
Preservative:		Date Analyzed:	05-20-09
Condition:	Intact	Analysis Needed:	TPH-418.1

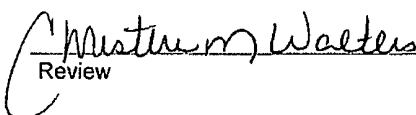
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	45.3	10.3

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: Jicarilla 92-2A.

Analyst 

Review 



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	05-20-09
Laboratory Number:	05-20-TPH.QA/QC 50104	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	05-20-09
Preservative:	N/A	Date Extracted:	05-20-09
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	05-20-09	1,620	1,690	4.3%	+/- 10%

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

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	2,070	2,130	2.9%	+/- 30%

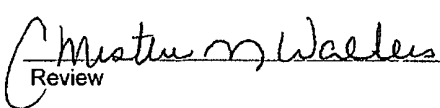
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	2,070	2,000	3,880	95.3%	80 - 120%

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 49969, 50104, 50105, 50115 - 50118 and 50124.

Analyst 

Review 



Chloride

Client	Williams	Project #:	04108-0003
Sample ID:	Jic 92 2A	Date Reported:	05-21-09
Lab ID#:	50115	Date Sampled:	05-15-09
Sample Matrix:	Soil	Date Received:	05-18-09
Preservative:		Date Analyzed:	05-19-09
Condition:	Intact	Chain of Custody:	7081

Parameter	Concentration (mg/Kg)
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Total Chloride

35

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 92-2A.**

Analyst

Review

CHAIN OF CUSTODY RECORD

7081

Client: <u>Williams</u>			Project Name / Location: <u>Jicarilla 92-2A</u>				ANALYSIS / PARAMETERS															
Client Address: <u>721.5. Main</u>			Sampler Name: <u>Adobe</u>																			
Client Phone No.: <u>634-4219</u>			Client No.: <u>04108-0003</u>																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative		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	
<u>Jic 92 2A</u>	<u>5/15/09</u>	<u>3:45 PM</u>	<u>50115</u>	<u>Soil</u> Solid Sludge Aqueous	<u>1-40g</u>			<u>X</u>	<u>X</u>								<u>X</u>	<u>X</u>			<u>No</u>	<u>Yes</u>
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
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				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
Relinquished by: (Signature) <u>Katasha Meador</u>					Date	Time	Received by: (Signature) <u>Kendall Aguirre</u>					Date	Time									
Relinquished by: (Signature)							Received by: (Signature)															
Relinquished by: (Signature)							Received by: (Signature)															



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

CLOSURE REPORT ATTACHMENTS

- 1 Date & How free standing liquids removed in following manner: 2/22/2009
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: 2/11/2009
Pit covered on following date: 4/13/2009
Reseeding started/scheduled for following date: Spring 2009
- 6 Pit liner removed on following date: 4/11/2009
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. 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):
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
- 12 Date pit was covered. 4/13/2009

CLOSURE REPORT ATTACHMENTS

Date 1st seeding took place:	Fall or spring following covering of pit
Date 2nd seeding took place:	Fall or spring following covering of pit
Date 70% coverage of native perennial vegetation accomplished:	To be Determined
Date C103 submitted to NMOCD (stating 2 successive vegetative seasons accomplished)	To be Determined

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
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
--	-----

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:	N/A
**	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: JICARILLA 92 # 2A	API #: 30-039-29994
----------------------------------	---------------------

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 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: 1/7/2009 Phone: 505-793-0528		

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

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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: DRILLING CONSULTANT		
Date: 1/8/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
File EH&S

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San Juan Basin Operations
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Aztec, NM 87410
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Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
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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: 1/9/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
File EH&S

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San Juan Basin Operations

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Aztec, NM 87410
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Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
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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
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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title:DRILLING CONSULTANT		
Date: 1/10/2009 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: JICARILLA 92 # 2A	API #: 30-039-29994
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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
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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: DRILLING CONSULTANT		
Date: 1/11/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
File EH&S

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Aztec, NM 87410
505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: DRILLING CONSULTANT		
Date: 1/12/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
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Aztec, NM 87410
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Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
----------------------------------	---------------------

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
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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: DRILLING CONSULTANT		
Date: 1/13/2009 Phone: 505-793-0528		

Record Retention. Submit with Closure
File. EH&S

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Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
----------------------------------	---------------------

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
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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:
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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: 1/14/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
File: EH&S

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



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: JICARILLA 92 # 2A	API #: 30-039-29994
----------------------------------	---------------------

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
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Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: DRILLING CONSULTANT		
Date: 1/15/2009 Phone: 505-793-0528		

Record Retention: Submit with Closure
File: EH&S



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

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: Jicarilla 92#2A	API #: 30-039-29944
--------------------------------	---------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date / 1/29/09 Time Reported: 09:00
Pit Properly Fenced (no fence on rig side if on site)	X Yes No Not Required (if site fully fenced)	
Pit Slopes intact	X Yes No	
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	X Yes No Not Applicable	
Free oil or sheen present on pit	Yes X No	
Flare Pit free of liquids	X Yes No Not Applicable	
Comments: 4' freeboard		
Inspector Signature:		
Printed Name: Craig Ward		
Title: Consultant		
Date: 1/29/09 Phone: 505-793-3099		

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

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: Jicarilla 92#2A	API #: 30-039-29944
--------------------------------	---------------------

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

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / 1/30/09 Time Reported: 08:00
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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 Not Applicable	
Free oil or sheen present on pit	Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Not Applicable	

Comments:

4' freeboard

On PI reports for 1/26, 1/28, and 1/29, I checked yes for oil and sheen on pit, I misread that as free of oil or sheen present on pit. So those reports should show no oil or sheen present on pit.

Inspector Signature:

Printed Name: Craig Ward

Title: Consultant

Date: 1/30/09

Phone: 505-793-3099

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

Exploration & Production
San Juan Basin Operations
720 So. Main / PO Box 640
Aztec, NM 87410
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Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: Jicarilla 92#2A	API #: 30-039-29944
--------------------------------	---------------------

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

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / 2/2/09 Time Reported: 09:00
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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 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 Not Applicable	

Comments:

4' freeboard

Snow off of pit and thawed out, looks like small amount of oil in pit, Buddy Banks will be watching this rig starting 2/3/09, I will be sure and have him check this out.

Inspector Signature:

Printed Name: Craig Ward

Title: Consultant

Date: 2/2/09

Phone: 505-793-3099

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

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

Facility Name: Jicarilla 92#2A	API #: 30-039-29944
--------------------------------	---------------------

Pit Type: Drilling Workover X Completion	Inspection: X Daily (Rig) Weekly (Tech)
--	---

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date / 2/10/09 Time Reported: 14:00
Pit Properly Fenced (no fence on rig side if on site)	X Yes No Not Required (if site fully fenced)	
Pit Slopes intact	X Yes No	
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	X Yes No Not Applicable	
Free oil or sheen present on pit	X Yes No	
Flare Pit free of liquids	X Yes No Not Applicable	
Comments: 4' freeboard Snow off of pit and thawed out, looks like small amount of oil in pit		
Inspector Signature:		
Printed Name: Craig Ward		
Title: Consultant		
Date: 2/10/09 Phone: 505-793-3099		

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

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: 92-2a	API #: 30-039-29944
-----------------------------	----------------------------

93-12-A

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <input checked="" type="checkbox"/> Daily (Rig) <input 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 Re12-2 2/16/09
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: <input type="checkbox"/> Pit has drilling liquids		
Inspector Signature: Tommy Clements		
Printed Name: Tommy Clements		
Title: Tech I		
Date: 2/16/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
--------------------------	---------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 Re12-2 2/24/09
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: 2/24/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
---------------------------------	----------------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 Re12-2 2/24/09
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: 2/24/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
---------------------------------	----------------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 Re12-2 3/3/09
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: 3/3/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
---------------------------------	----------------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 3/10/09
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: 3/10/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
--------------------------	---------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 3/18/09
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: 3/18/2009 Phone:		

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

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: Jic 92-2a	API #: 30-039-29944
--------------------------	---------------------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <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 3/25/09
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: 3/25/2009 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	OIL WELL	<input checked="" type="checkbox"/> GAS WELL	DRY	OTHER		
b	TYPE OF COMPLETION	<input checked="" type="checkbox"/> 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 1095' FNL & 1175' FWL, Sec 29 (D), T27N, R3W At top production interval reported below 1450' FNL & 1506' FWL, Sec 29 (F), T27N, R3W At total depth Same						
5	LEASE DESIGNATION AND LEASE NO Jicarilla contract #92						
6	IF INDIAN, ALLOTTEE OR Jicarilla Apache Nation						
7	UNIT AGREEMENT NAME						
8	FARM OR LEASE NAME, WELL NO Jicarilla "92" #2A						
9	API WELL NO 30-039-29944						
10	FIELD AND POOL, OR WILDCAT Blanco Mesa Verde						
11	SEC, T, R, M, OR BLOCK AND SURVEY OR AREA Sec 29, T27N, R3W						
12	COUNTY OR Rio Arriba						
13	STATE New Mexico						
14	PERMIT NO						
15	DATE ISSUED						
16	DATE T D REACHED 1-12-09						
17	DATE COMPLETED (READY TO PRODUCE) 2-10-09						
18	ELEVATIONS (DK, RKB, RT, GR, ETC)* 7323' GR						
19	ELEVATION CASINGHEAD						
20	TOTAL DEPTH, MD & TVD 6707' MD						
21	PLUG, BACK T D, MD & TVD 6630' MD						
22	IF MULTICOMP, HOW MANY						
23	INTERVALS DRILLED BY						
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Blanco Mesa Verde 5879' - 6206'						
25	WAS DIRECTIONAL SURVEY MADE YES						
26	TYPE ELECTRIC AND OTHER LOGS RUN Aray 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	AMOUNT PULLED
9-5/8", K-55	36 0#	345'	12-1/4"	200 SX - SURFACE	
7", K-55	23 0#	4495'	8-3/4"	650 SX - 1500' (CBL)	
29 LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30 TUBING RECORD
4-1/2", K-55, 11 6#	4316'	6688'	200 SX - 4480' (CBL)		SIZE 2-3/8", 4 7# J-55
				DEPTH SET (MD)	PACKER SET (MD)
				6572'	
31 PERFORATION RECORD (Interval, size, and number)					
CH/MEN 5879' - 6206' Total of 52, 0 34" holes			32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC		
PLO 6239' - 6585', Total of 57, 0 34" holes			AMOUNT AND KIND OF MATERIAL USED		
			DEPTH INTERVAL (MD)		
			5879' - 6206' CH/MEN	Fraced with 12380# 14/30 LiteProp 125 followed with 2000# brown sand	
			6239' - 6585' PLO	Fraced with 14440# 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	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
2-9-09	1 5 hrs	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0 oz	27 oz				800 p/day		
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) TO BE SOLD						TEST WITNESSED BY Craig Ward	
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 2-12-09



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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	WILLIAMS PRODUCTION, LLC	Contact	Myke Lane
Address	P.O. BOX 640, AZTEC, NM 87410	Telephone No.	(505) 634-4219
Facility Name	Jicarilla 92 #2A	Facility Type	Well Site

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

LOCATION OF RELEASE

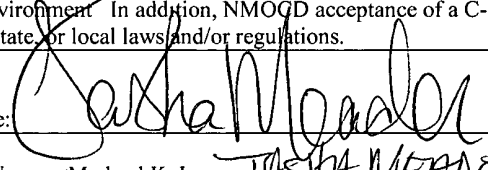
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	29	27N	03W					

Latitude 36.548622 **Longitude** -107.173653

NATURE OF RELEASE

Type of Release	No Release Detected	NA	Volume of Release	NA	Volume Recovered	NA
Source of Release	NA		Date and Hour of Occurrence		Date and Hour of Discovery	NA
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required		If YES, To Whom?	NA		
By Whom?			Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Volume Impacting the Watercourse	NA		
If a Watercourse was Impacted, Describe Fully.*	NA					
Describe Cause of Problem and Remedial Action Taken.*	NA					
Describe Area Affected and Cleanup Action Taken.*	NA					

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

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

* Attach Additional Sheets If Necessary

**WILLIAMS PRODUCTION
TEMP PIT CLOSURE REPORT ADDENDUM
ROSA UNIT Jicarilla 92 #2A**

Req #

- 1 Date & How free standing liquids removed in following manner: 2/22/2009
Liquids removed by vacuum truck and hauled to Basin Disposal, Permit # NM 01-0005
- 3 Return receipt sent & received from surface owner:
Williams notified the SMA of its intent to use a temporary pit and onsite burial in the Surface Use Plan in the well APD. The SMA was notified by email see attached. No return receipt required per BLM:FFO/NMOCD MOU dated 5/4/09.
- 4 Rig off location on following date: 2/11/2009
Pit covered on following date: 4/13/2009
Reseeding started/scheduled for following date:
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: 4/1/2009
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 per Adobe on the order of 2.7:1 to 3:1 and varied during closure depending on the initial moisture content of the mud and drill solids.
- 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.

ROSA UNIT Jicarilla 92 #2A

- 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 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: 4/13/2009
Revegetation and restoration completion See item 11 and refer to MOU.
-
- 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 92 #2A, Unit D, S29, 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
-

VALIANCE PROS
JACOBI 12-21
UNITED SEC 21
21 FEB
MILWAUKEE BURN

12.16.2009



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

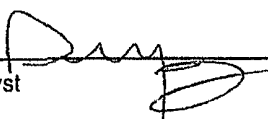
Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Laboratory Number:	52672	Date Sampled:	12-10-09
Chain of Custody No:	8469	Date Received:	12-11-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-14-09
Condition:	Intact	Analysis Requested:	8015 TPH

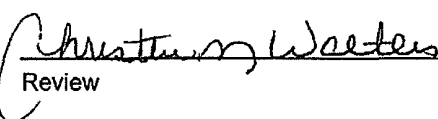
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.5	0.2
Diesel Range (C10 - C28)	10.4	0.1
Total Petroleum Hydrocarbons	11.9	0.2

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 92 #2A.**


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

	I-Cal Date	I-Cal RF	O-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%

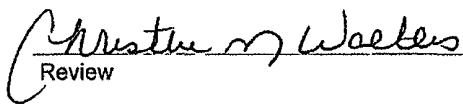
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	18.1	250	264	98.5%	75 - 125%
Diesel Range C10 - C28	14.5	250	258	97.4%	75 - 125%

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:	52672	Date Sampled:	12-10-09
Chain of Custody:	8469	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	1.9	0.9
Toluene	31.0	1.0
Ethylbenzene	22.7	1.0
p,m-Xylene	175	1.2
o-Xylene	53.7	0.9
Total BTEX	284	

ND - Parameter not detected at the stated detection limit.

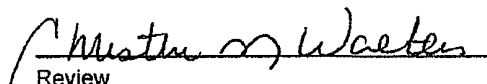
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.1 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	99.0 %

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 92 #2A.


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 RF	C-Cal RF	%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

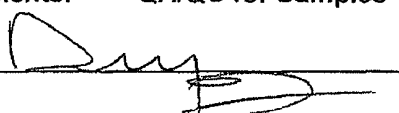
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	2.4	2.2	8.3%	0 - 30%	0.9
Toluene	17.9	17.4	2.8%	0 - 30%	1.0
Ethylbenzene	9.6	9.4	2.1%	0 - 30%	1.0
p,m-Xylene	264	258	2.1%	0 - 30%	1.2
o-Xylene	118	112	5.3%	0 - 30%	0.9

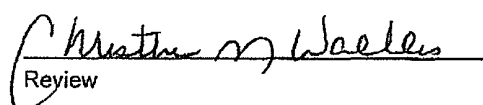
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.4	50.0	50.4	96.2%	39 - 150
Toluene	17.9	50.0	64.9	95.6%	46 - 148
Ethylbenzene	9.6	50.0	54.6	91.6%	32 - 160
p,m-Xylene	264	100	355	97.7%	46 - 148
o-Xylene	118	50.0	164	97.5%	46 - 148

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

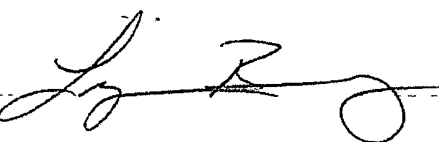
Client:	WPX	Project #:	04108-0003
Sample ID:	Blow Pit	Date Reported:	12-15-09
Laboratory Number:	52672	Date Sampled:	12-10-09
Chain of Custody No:	8469	Date Received:	12-11-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-11-09
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	21.8	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 92 #2A

Analyst 

Christine M. Walters
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

Review



Chloride

Client: WPX
Sample ID: Blow Pit
Lab ID#: 52672
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 04108-0003
Date Reported: 12-15-09
Date Sampled: 12-10-09
Date Received: 12-11-09
Date Analyzed: 12-15-09
Chain of Custody: 8469

Parameter

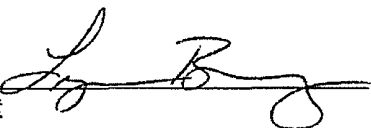
Concentration (mg/Kg)

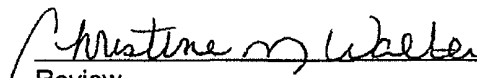
Total Chloride

<1.4

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 92 #2A


Analyst 


Review

CHAIN OF CUSTODY RECORD

8469

Client: <i>W PX</i>			Project Name / Location: <i>Jicarilla 92 # 2A</i>			ANALYSIS / PARAMETERS													
Client Address: <i>Mike Lane</i>			Sampler Name: <i>John Shelby</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>04108-0003</i>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
						HgCl ₂	HCl												
<i>Bow pit</i>	<i>12/14/09</i>	<i>2:40 pm</i>	<i>52672</i>	<i>Soil Solid</i>	<i>Sludge Aqueous</i>	<i>1</i>													
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
				<i>Soil Solid</i>	<i>Sludge Aqueous</i>														
Relinquished by: (Signature) <i>[Signature]</i>						Date	Time	Received by: (Signature) <i>[Signature]</i>						Date	Time				
						<i>12/14/09</i>	<i>8:25</i>							<i>12/14/09</i>	<i>8:25</i>				
Relinquished by: (Signature)								Received by: (Signature)											
Relinquished by: (Signature)								Received by: (Signature)											



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

Submit To Appropriate District Office Two Copies District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S St Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 July 17, 2008				
		1. WELL API NO 30-039-29944								
		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 #92								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4 Reason for filing <input type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input checked="" type="checkbox"/> C-144 CLOSURE ATTACHMENT (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 Jicarilla Apache Nation 6 Well Number Jicarilla "92" #2A				
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 2/11/2009		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										
23 CASING RECORD (Report all strings set in well)										
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 _____ _____ _____				
28 PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod or Shut-in)				
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 - (Corr)				
29 Disposition of Gas (Sold, used for fuel, vented, etc)							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 548622 Longitude -107 173653 NAD X1927 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										
Signature <i>Michael K. Lane</i>		Name Michael K. Lane		Title EH&S Specialist		Date				
E-mail Address: myke.lane@williams.com										

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1361 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Breros Rd., Aztec, 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

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 030-039-29944		2 Pool Code 72319		3 Pool Name BLANCO MESA VERDE	
4 Property Code		5 Property Name JICARILLA 92			6 Well Number 2A
7 OGRID No. 120782		8 Operator Name WILLIAMS PRODUCTION COMPANY			9 Elevation 7323

¹⁰ Surface Location

UL or lot no D	Section 29	Township 27N	Range 3W	Lot Idn	Feet from the 1095	North/South line NORTH	Feet from the 1175	East/West line WEST	County RIO ARRIBA
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¹¹ 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
" Dedicated Acres: 320 AC (W2)	" Joint or Infill	" 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

16 <div style="text-align: center; margin-top: 100px;"> </div>	6279.25		17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> <hr/> Signature <hr/> Printed Name <hr/> Title and E-mail Address <hr/> Date
5278.51	<h1 style="margin: 0;">29</h1>	5284.96	18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plan 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.</i> JANUARY 5, 2006 <hr/> Date of Survey <hr/> Signature and Seal of Professional Surveyor <hr/> Certificate Number 9672
	5274.96		

RCVD JUN 7 '12
OIL CONS. DIV.
PISL 3