

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.

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

6827  
Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

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

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

1.  
Operator: Williams Operating Co, LLC OGRID #: 120782  
Address: PO Box 640 / 721 S Main Aztec, NM 87410  
Facility or well name: Rosa Unit 160D  
API Number: 30-039-30689 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr N Section 25 Township 31N Range 6W County: Rio Arriba  
Center of Proposed Design: Latitude 36.86653N Longitude -107.41808W NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.  
☒ **Pit:** Subsection F or G of 19.15.17.11 NMAC  
Temporary: ☒ Drilling ☒ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A  
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams: ☒ Welded ☒ Factory ☐ Other \_\_\_\_\_ Volume: 20,000 bbl Dimensions: L 140' x W 70' x D 12'

3.  
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC  
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other \_\_\_\_\_  
☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
Liner Seams: ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_

4.  
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

5.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.



8/24/2010

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6.

**Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify As per BLM 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

10.

**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 NMAC  
☐ 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

16.

**Operator Application Certification:**

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

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

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

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

20.

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

OCD Representative Signature: [Signature] - Kelly Approval Date: 9/01/2011

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

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

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

☒ Closure Completion Date: 6/18/2010

22.

**Closure Method:**

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

23.

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

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

Disposal Facility Name: \_\_\_\_\_ 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  
☒ Soil Backfilling and Cover Installation  
☒ Re-vegetation Application Rates and Seeding Technique  
☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.8663N Longitude -107.41808W 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: EH&S SPECIALIST

Signature: [Signature] Date: 8/18/10

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

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

**Well:** Rosa Unit # 160D  
**API No:** 30-03930689  
**Location:** N-S25 T 31N R 06W

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general in-place closure requirements of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workovers of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard closure plan, a separate well/pit specific closure plan will be developed and utilized.

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

- Details on Capping and Covering, where applicable
- Plot Plan (Pit Diagram)
- Inspection reports
- Sampling Results
- Division Form C-105: WELL COMPLETION OR RECOMPLETION REPORT AND LOG
- Copy of Deed Notice filed with the County Clerk (format to meet County requirements)  
A deed notice is not required on state, federal or tribal land according to NMOCD FAQ dated October 30, 2008 and posted on the NMOCD website.

General Plan Requirements:

1. All free standing liquids will be removed from the pit at the start of the closure process. Liquids will be removed in a manner that the appropriate District Office approves including; recycled, reused, reclaimed, evaporated, and/or disposed of in a Division-approved facility. Once all free liquids are removed, the sludge will be stabilized by one of the following methods depending on equipment availability: blending with clean stockpiled soils or dewatering using a Bowl Decanter Centrifuge then blending with clean stockpiles soils.  
To the extent practical, free liquids were pulled from the reserve pit following the completion rigoff. Haul date was 10/3/2009 to Rosa Unit SWD #001 (Order: SWD-916, API: 3003927055)
2. The preferred method of closure for all temporary pits will be on-site closure by in-place burial, provided all the criteria in 19.15.17.13.B are met.  
On-site burial plan for this location was approved by the Aztec District Office on 7/2/2009.
3. The surface owner shall be notified of WPX's proposed closure plan using a means that provides proof of notice (i.e. certified mail/return receipt requested)  
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. Within six months of the "rig-off" status occurring WPX will ensure that the temporary pit is covered, recontoured and reseeded in progress.  
Drill rig-off 8/22/2009. Request for transfer to completion rig submitted 11/2/2009 to OCD Aztec District Office, Completion rig-off 9/12/2009. Pit covered 7/31/2010 Pit area along with unused portions of well pad to be interim reclaimed in accordance with Surface Management Agency requirements in APD-COAs and per BLM:FFO/NMOCD MOU dated 5/4/09.
5. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name (WPX)
  - b. Well Name and API Number
  - c. Location (USTR)

The Aztec District Office of NMOCD was notified by email using a format acceptable to the District. Copies of the notification from Abode Contractors on 6/3/2010 is attached.

6. The pit liner shall be removed above "mud level" after stabilization. Removal of the liner will consist of manually or mechanically cutting the liner at the mud level and removing all remaining liner. Care will be taken to remove "all" of the liner (i.e. anchored material). All excessive liner will be disposed of at a licensed disposal facility (probably San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426).

The liner to the temporary pit was removed above the "mud level" once stabilized. Removal of the liner consisted of manually cutting the liner and removing all remaining liner material above the "mud level" including the anchor material. All excessive liner was disposed of at the San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

7. Solidification of the remaining pit contents shall be achieved by mixing non-waste containing, earthen material. The solidification process will be accomplished use a combination of natural drying and mechanical mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed safe and stable. The mixing ratio shall not exceed 3 parts non-waste to 1 part pit contents.

Following removal of free liquids, the pit contents were mixed with non-waste containing, earthen material in order to achieve appropriate solidification and a consistency that was deemed safe and stable. The solidification process was accomplished using a combination of natural drying, a Bowl Decanter Centrifuge, and mechanically mixing using a dozer and trackhoe. The mixing ration was approximately 2.5-3 parts native soil to 1 part pit contents. Solidification was completed 6/14/2010.

8. A five-point composite sample will be taken of the pit using sampling tools and all samples tested per 19.15.17.13(B)(1)(b) NMAC. In the event that the criteria are not met (See Table 1), all contents will be handled per 19.15.17.13(B)(1)(a) (i.e. dig and haul to a Division-approved facility). Approval to haul will be requested of the Aztec District office prior to initiation.

A five-point composite sampling was taken of the pit area using sampling tools and the sample was tested per 19.15.17.13(B)(1)(b) NMAC. Results are shown in Table 1 and lab reports are attached.

Table 1: Closure Criteria for Temporary Pits in Non-sensitive Areas with Groundwater >100 bgs.

Components	Testing Methods	Limits (mg/Kg)	Pit (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 Method 8021B or 8260B	50	0.0146
TPH	EPA SW-846 Method 418.1	2500	88
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	500	ND
Chlorides	EPA SW-846 Method 300.1	500	40

9. Upon completion of solidification and testing, the pit area will be backfilled with non-waste earthen material compacted to native conditions to enable effective revegetation for successful evapotranspiration. A minimum of four feet of cover including replacement of one foot of suitable material to establish vegetation, or the background thickness of topsoil, whichever is greater.

Upon completion of solidification and testing, the pit area was backfilled with non-waste earthen material compacted to native conditions. A minimum of four feet of cover to the extent practical was achieved and the cover included just over a foot of topsoil suitable to establish vegetation.

10. Following cover, the site will be recontoured to meet the Surface Management Agency or surface owner requirements. Re-contouring will attempt to match fit, shape, line form, and texture of the surrounding geography. Re-shaping will include drainage control, prevent ponding, and minimize erosion. Natural drainages will be unimpeded and stormwater Best Management Practices (BMPs) will be used to aid in soil stabilization and protection surface water quality.

Following cover, Williams reestablished drainage and contours to approximately match previous topography meeting the Conditions of Approval in the APD and the direction offered by a BLM/USFS inspector. Cover and re-contouring were completed 6/18/2010.

11. Notification will be sent to the Aztec District office when the reclaimed area is seeded. Williams will comply with Surface Management Agency reseeding requirements in the COAs of the APD for the referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.

12. WPX shall seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-

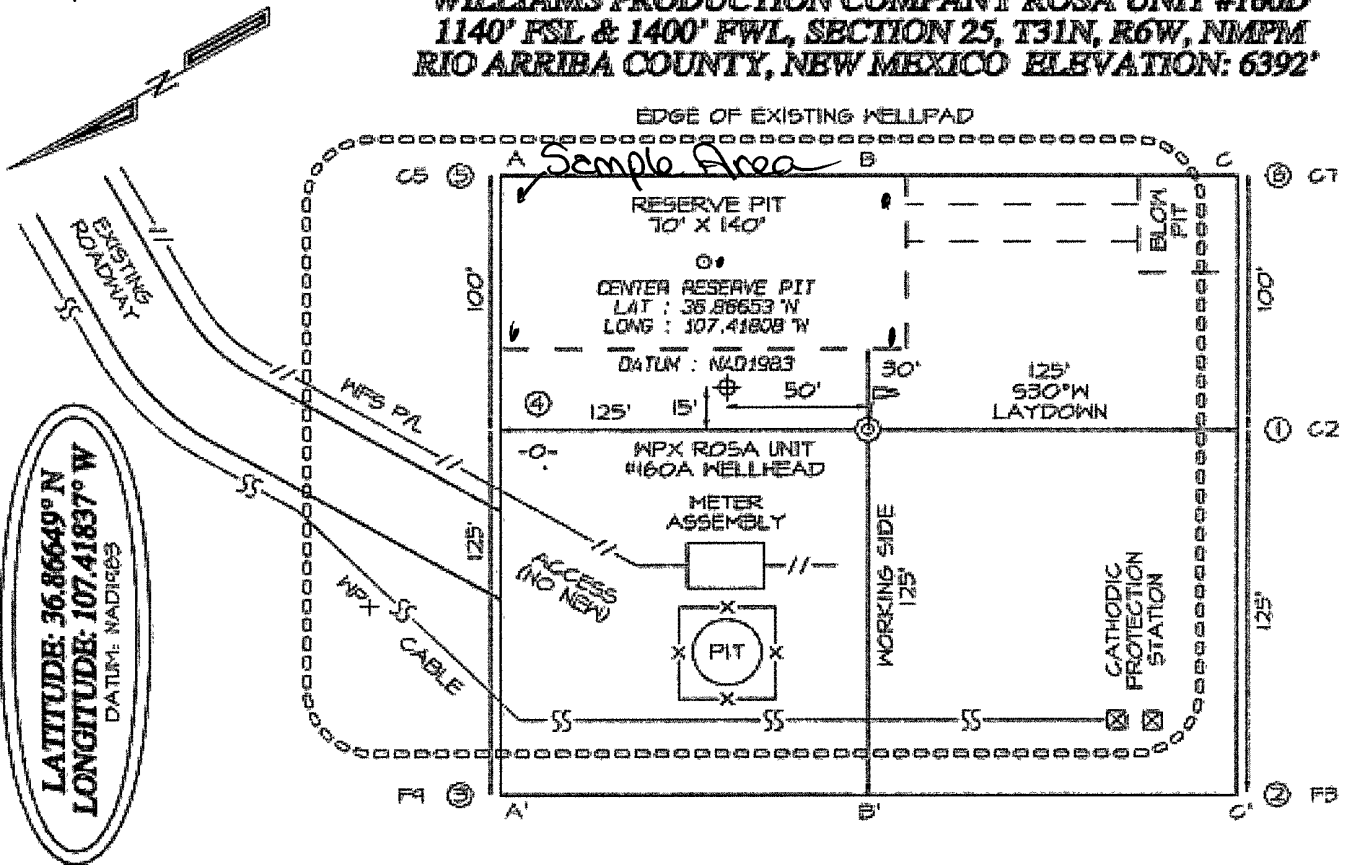
approved methods. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintained that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. *Note: WPX assumes the seeding stipulations including mix and seeding methods specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) or Land owner as part of a surface use agreement or APD are Division-approved methods unless notified by the Division of their unacceptability.*

Williams will comply with Surface Management Agency reseeding requirements in the COAs of the APD for the referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.

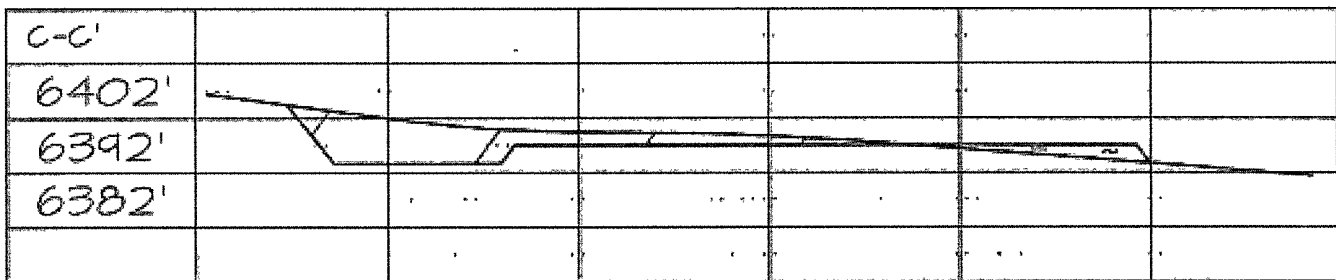
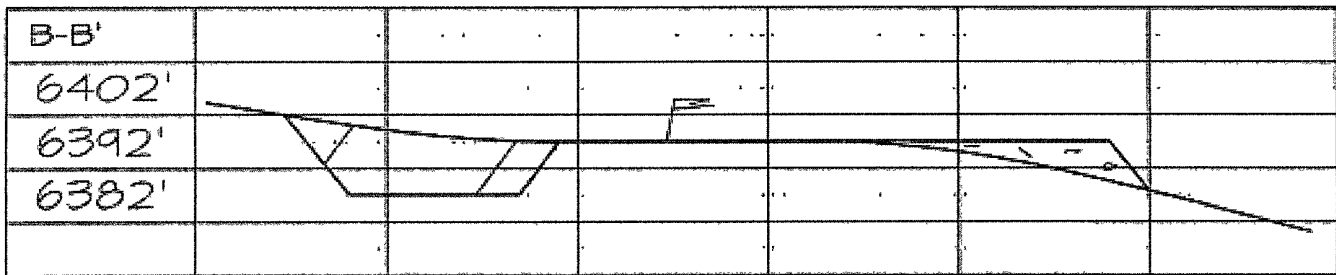
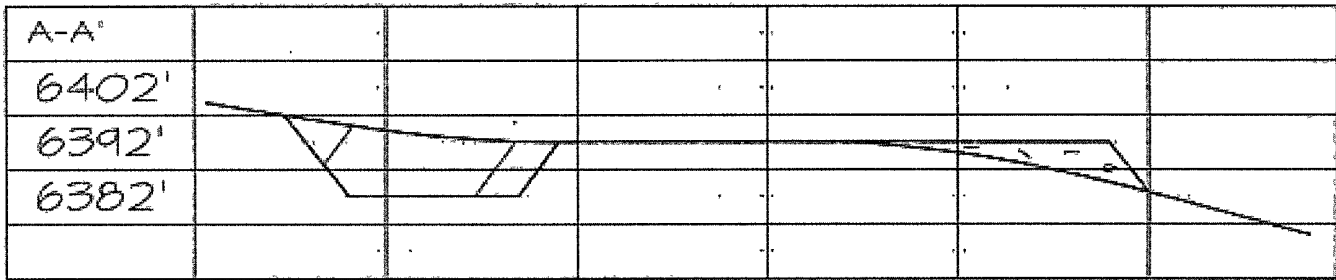
13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four-foot tall riser will be threaded into the top of the collar marker and welded around the base with the operations information at the time of all wells on the pad abandoned. The information will include Operator Name, Lease Name, Well Name, and number, USTR, and an indicator that the marker is an onsite pit burial location.

The temporary pit was located with a steel marker meeting the above listed specifications. The marker has the following information welded for future reference: Williams Production, NMSE-078768, SN25-T31N-R06W-F, "Pit Burial" (photo attached). Steel marker set 7/7/2010.

**WILLIAMS PRODUCTION COMPANY ROSA UNIT #160D**  
**1140' FSL & 1400' FWL, SECTION 25, T31N, R6W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6392'**



Sheet T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.



FILENAME: B1625NT

SHEET 2 OF 3

NCE SURVEYS, INC.

DRAWN BY: EDO

CHECKED BY: JCE



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

Client: WPX  
Sample ID: Reserve Pit  
Laboratory Number: 55066  
Chain of Custody No: 9908  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

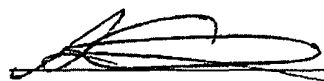
Project #: 04108-0136  
Date Reported: 07-12-10  
Date Sampled: 07-07-10  
Date Received: 07-08-10  
Date Extracted: 07-10-10  
Date Analyzed: 07-12-10  
Analysis Requested: 8015 TPH

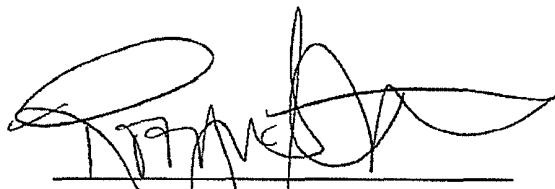
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Rosa Unit #160 D

  
Analyst

  
Review



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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	07-12-10 QA/QC	Date Reported:	07-12-10
Laboratory Number:	55065	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-12-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+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

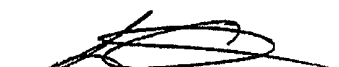
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1.3	1.3	0.0%	0 - 30%
Diesel Range C10 - C28	1.9	1.9	0.0%	0 - 30%

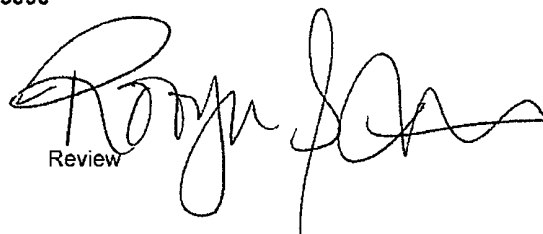
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1.3	250	254	101%	75 - 125%
Diesel Range C10 - C28	1.9	250	258	102%	75 - 125%

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 55065-55067; 55086-55090

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	WPX	Project #:	04108-0136
Sample ID:	Reserve Pit	Date Reported:	07-13-10
Laboratory Number:	55066	Date Sampled:	07-07-10
Chain of Custody:	9908	Date Received:	07-08-10
Sample Matrix:	Soil	Date Analyzed:	07-12-10
Preservative:	Cool	Date Extracted:	07-10-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.6	1.0
Ethylbenzene	1.6	1.0
p,m-Xylene	3.4	1.2
o-Xylene	3.8	0.9
Total BTEX	14.6	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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

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

Comments: Rosa Unit #160D

Analyst

Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0712BBLK QA/QC	Date Reported:	07-13-10
Laboratory Number:	55060	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-12-10
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	6.2538E+006	6.2663E+006	0.2%	ND	0.1
Toluene	4.8929E+006	4.9027E+006	0.2%	ND	0.1
Ethylbenzene	3.6143E+006	3.6215E+006	0.2%	ND	0.1
p,m-Xylene	8.5804E+006	8.5976E+006	0.2%	ND	0.1
o-Xylene	2.9667E+006	2.9727E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	8.3	7.8	6.0%	0 - 30%	0.9
Toluene	11.8	11.6	1.7%	0 - 30%	1.0
Ethylbenzene	7.4	7.4	0.0%	0 - 30%	1.0
p,m-Xylene	14.6	14.9	2.1%	0 - 30%	1.2
o-Xylene	9.5	9.9	4.2%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	8.3	50.0	51.9	102%	39 - 150
Toluene	11.8	50.0	52.2	102%	46 - 148
Ethylbenzene	7.4	50.0	52.5	103%	32 - 160
p,m-Xylene	14.6	100	108	106%	46 - 148
o-Xylene	9.5	50.0	55.4	109%	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 55060; 55065-55067; 55087-55090

Analyst

Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	WPX	Project #:	04108-0136
Sample ID:	Reserve Pit	Date Reported:	07-13-10
Laboratory Number:	55066	Date Sampled:	07-07-10
Chain of Custody No:	9908	Date Received:	07-08-10
Sample Matrix:	Soil	Date Extracted:	07-09-10
Preservative:	Cool	Date Analyzed:	07-09-10
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	88	17.9

ND = Parameter not detected at the stated detection limit.

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

Comments: Rosa Unit #160 D

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:	07-09-10
Laboratory Number:	07-09-TPH.QA/QC 55065	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	07-09-10
Preservative:	N/A	Date Extracted:	07-09-10
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	06-30-10	07-09-10	1,716	1,770	3.1%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	17.9


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	166	161	2.9%	+/- 30%

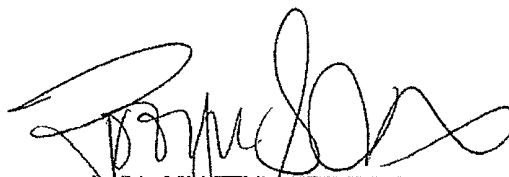
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	166	2,000	2,200	102%	80 - 120%

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 55065-55067; 55084; 55055; 55058-55059

  
Analyst

  
Review



## Chloride

Client: WPX  
Sample ID: Reserve Pit  
Lab ID#: 55066  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Project #: 04108-0136  
Date Reported: 07-13-10  
Date Sampled: 07-07-10  
Date Received: 07-08-10  
Date Analyzed: 07-12-10  
Chain of Custody: 9908

Parameter

Concentration (mg/Kg)

Total Chloride

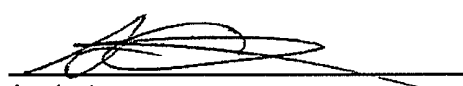
40

### Reference:

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

### Comments:

Rosa Unit #160 D

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

09908

Client: <b>WPX</b>			Project Name / Location: <b>Rosa unit # 160B</b>			ANALYSIS / PARAMETERS														
Client Address: <b>Myke Lane</b>			Sampler Name: <b>Glen Shelby</b>			<div style="display: flex; justify-content: space-between;"> <div> TPH (Method 8015)  BTEX (Method 8021)  VOC (Method 8260)  RCRA 8 Metals  Cation / Anion  RCI  TCLP with H/P  PAH  TPH (418.1)  CHLORIDE </div> <div> Sample Cool  Sample Intact </div> </div>														
Client Phone No.:			Client No.: <b>04108-0136</b>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H <sub>2</sub> O, HCl			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
<b>Reserve Pit</b>	<b>7-7-10</b>	<b>12:02 PM</b>	<b>55066</b>	<b>Soil Solid</b>	<b>1</b>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Y</b>	<b>Y</b>
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
				Soil Solid																
Relinquished by: (Signature) 				Date <b>7-8-10</b>	Time <b>9:40 AM</b>	Received by: (Signature) 				Date <b>7/8/10</b>	Time <b>9:40</b>									
Relinquished by: (Signature)						Received by: (Signature)														
Relinquished by: (Signature)						Received by: (Signature)														



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

## Fields, Vanessa

---

**From:** johnny@adobecontractorsinc.com  
**Sent:** Wednesday, August 18, 2010 1:07 PM  
**To:** Fields, Vanessa; Meador, Tasha  
**Subject:** FW: Williams Cleanups

Here is the notice to the state.

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

---

**From:** Glenn Shelby [mailto:[glenn@adobecontractorsinc.com](mailto:glenn@adobecontractorsinc.com)]  
**Sent:** Thursday, June 03, 2010 2:15 PM  
**To:** Brandon Powell  
**Cc:** Johnny Stinson; Myke Lane; Tasha Meador  
**Subject:** Williams Cleanups

On Monday June 7th we will be moving equipment and starting the reclamation on the Rosa Unit-160D. Let me know if you have any questions.

Thanks,  
Glenn Shelby  
Field Foreman  
Adobe Contractors, Inc.  
Cell: 320-7187  
[glenn@adobecontractorsinc.com](mailto:glenn@adobecontractorsinc.com)

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

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG*</b>						5 LEASE DESIGNATION AND LEASE NO. NMSF-078766	
1a. TYPE OF WELL. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER  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	
						7 UNIT AGREEMENT NAME Rosa Unit	
2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY						8 FARM OR LEASE NAME, WELL NO Rosa Unit #160D	
3 ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208						9 API WELL NO 30-039-30689	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface 1140' FSL & 1400' FWL, sec 25, T31N, R6W At top production interval reported below : 631' FSL & 679' FWL, sec 25, T31N, R6W At total depth: Same						10. FIELD AND POOL, OR WILDCAT Basin Dakota	
						11 SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 25, T31N, R6W	
				14. PERMIT NO	DATE ISSUED	12 COUNTY OR Rio Arriba	13 STATE New Mexico
15 DATE SPUDDED 8-9-09	16 DATE TTD REACHED 8-20-09	17 DATE COMPLETED (READY TO PRODUCE) 11-5-09		18 ELEVATIONS (DK, RKB, RT, GR, ETC)* 6392' GR		19 ELEVATION CASINGHEAD	
20 TOTAL DEPTH, MD & TVD 8115' MD / 7976' TVD		21 PLUG, BACK T D, MD & TVD 8107' MD / 7968' TVD		22 IF MULTCOMP., HOW MANY 3 *	23 INTERVALS DRILLED BY	ROTARY TOOLS x	CABLE TOOLS
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA. 7996'-8096' MD						25 WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL						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
10-3/4", J-55		40.5#	322'	14-3/4"	290 SX - SURFACE		
7-5/8", K-55		26 4#	3853'	9-7/8"	585 SX - SURFACE		
5-1/2", N-80		17.0#	8114'	6-3/4"	355 SX - 3500' (CBL)		
29 LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4.7#, J-55 & N-80EUE 8rd	7978'	none
31. PERFORATION RECORD (Interval, size, and number)  Dakota: Total of 63, 0.34" holes				32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				7996'-8096'	Fraced with 5372# 100 mesh BASF followed with 87,518# 40/70 mesh BASF		
33 PRODUCTION Commingled with MV & MC per AZT-3254 NSL-6015							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  Flowing				WELL STATUS (PRODUCING OR SI)  SI - waiting on tie-in	
DATE OF TEST 11-2-09	TESTED 2 hr	CHOKE SIZE 1/2"	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
FLOW TBG PRESS 0	CASING PRESSURE 300 lb	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF 431 mcf/d	WATER - BBL	OIL GRAVITY-API (CORR )
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): non flaring						TEST WITNESSED BY Weldon Higgins	
35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report							
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 11-6-09

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*						5 LEASE DESIGNATION AND LEASE NO. NMSF-078766	
6. IF INDIAN, ALLOTTEE OR						7 UNIT AGREEMENT NAME Rosa Unit	
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY						8. FARM OR LEASE NAME, WELL NO. Rosa Unit #160D	
3 ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208						9 API WELL NO 30-039-30689	
4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface. 1140' FSL & 1400' FWL, sec 25, T31N, R6W At top production interval reported below : 631' FSL & 679' FWL, sec 25, T31N, R6W At total depth Same						10. FIELD AND POOL, OR WILDCAT Basin Mancos	
						11 SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 25, T31N, R6W	
						12 COUNTY OR Rio Arriba	
						13 STATE New Mexico	
15. DATE SPUDDED 8-9-09		16. DATE T.D. REACHED 8-20-09		17. DATE COMPLETED (READY TO PRODUCE) 11-5-09		18 ELEVATIONS (DK, RKB, RT, GR, ETC)* 6392' GR	
20 TOTAL DEPTH, MD & TVD 8115' MD / 7976' TVD		21. PLUG BACK T.D. MD & TVD 8107' MD / 7968' TVD		22 IF MULTICOMP.. HOW MANY 3 *		23 INTERVALS DRILLED BY	
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN MANCOS: 7012'-7388' MD						25 WAS DIRECTIONAL SURVEY MADE YES	
26 TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL						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	
10-3/4", J-55		40.5#		322'		14-3/4"	
7-5/8", K-55		26.4#		3853'		9-7/8"	
5-1/2", N-80		17.0#		8114'		6-3/4"	
29 LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2.375", 4.7#, J-55 & N-80EUE 8rd		7978'		none			
31 PERFORATION RECORD (Interval, size, and number)							
32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
7012'-7208'				Fraced with 6933# 100 mesh BASF followed with 124,962# 40/70 mesh BASF			
7267'-7388'				Fraced with 5232# 100 mesh BASF followed with 122,249# 40/70 mesh BASF			
33. PRODUCTION							
Commingled with MV & DK per AZT-3254 NSL-6015							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST		TESTED		CHOKE SIZE		PROD'N FOR TEST PERIOD	
11-2-09		2 hr		1/2"			
FLOW TBG PRESS		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL - BBL	
0		300 lb				GAS - MCF 665 mcf/d	
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc)						TEST WITNESSED BY	
non flaring <td colspan="2">Weldon Huggins</td>						Weldon Huggins	
35 LIST OF ATTACHMENTS							
SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report							
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 11-6-09

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 1 OIL WELL ☒ GAS WELL DRY OTHER

b TYPE OF COMPLETION  
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER

2 NAME OF OPERATOR  
WILLIAMS PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At Surface: 1140' FSL & 1400' FWL, sec 25, T31N, R6W  
At top production interval reported below: 631' FSL & 679' FWL, sec 25, T31N, R6W  
At total depth: Same

5 LEASE DESIGNATION AND LEASE NO  
NMSF-078766

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME  
Rosa Unit

8 FARM OR LEASE NAME, WELL NO  
Rosa Unit #160D

9 API WELL NO  
30-039-30689

10. FIELD AND POOL, OR WILDCAT  
Blanco Mesaverde

11 SEC., T, R., M., OR BLOCK AND  
SURVEY OR AREA  
Sec 25, T31N, R6W

12. COUNTY OR 13 STATE  
Rio Arriba New Mexico

14. PERMIT NO DATE ISSUED  
15 DATE SPUDDED 16 DATE T.D. REACHED 17. DATE COMPLETED (READY TO PRODUCE) 18 ELEVATIONS (DK, RKB, RT, GR, ETC.)\*  
8-9-09 8-20-09 11-5-09 6392' GR

20 TOTAL DEPTH, MD & TVD 21 PLUG, BACK T.D., MD & TVD 22. IF MULTICOMP., HOW MANY 23 INTERVALS DRILLED BY  
8115' MD / 7976' TVD 8107' MD / 7968' TVD 3\*

19. ELEVATION CASINGHEAD

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
BLANCO MESAVERDE: 5520'-6032' MD

25 WAS DIRECTIONAL SURVEY MADE  
YES

26 TYPE ELECTRIC AND OTHER LOGS RUN  
Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3853'	9-7/8"	585 SX - SURFACE	
5-1/2", N-80	17.0#	8114'	6-3/4"	355 SX - 3500' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4.7#, J-55 & N-80 EUE 8rd	7978'	none

31 PERFORATION RECORD (Interval, size, and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5520'-5732'	Fraced with 86,481# 20/40 mesh BASF
5762'-6032'	Fraced with 80,808# 20/40 mesh BASF

Upper MV: Total of 53, 0.34" holes

Lower MV: Total of 68, 0.34" holes

33 PRODUCTION Commingled with MC & DK per AZT-3254 NSL-6015

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
11-2-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR )
0	300 lb				701 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): non flaring

TEST WITNESSED BY: Weldon Higgins

35 LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

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 11-6-09

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir Use "APPLICATION TO DRILL" for permit for such proposals

SUBMIT IN TRIPLICATE		5.	Lease Designation and Serial No. NMSF-078766
		6	If Indian, Allottee or Tribe Name
		7	If Unit or CA, Agreement Designation Rosa Unit
1.	Type of Well Oil Well Gas Well X Other	8.	Well Name and No Rosa Unit 160D
2	Name of Operator WILLIAMS PRODUCTION COMPANY	9.	API Well No. 30-039-30689
3.	Address and Telephone No. PO Box 640 Aztec, NM 87410-0640	10.	Field and Pool, or Exploratory Area BLANCO MV/BASIN DK/BASIN MC
4	Location of Well (Footage, Sec., T, R, M, or Survey Description) SURF: 1140' FSL & 1400' FWL BHL: 631' FSL & 679' FWL SEC 25 31N 6W	11.	County or Parish, State Rio Arriba, New Mexico

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
X Subsequent Report	Recompletion	New Construction
Final Abandonment	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	X Other Completion	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**8-27-09** – RU BWWC and run CBL, TOC @ 3500'

**8-31-09** – MIRU AWS #748 – Test 5-1/2" prod casing to 1500 PSI for 30 min, no leak off

**9-1-09** – DO cement & FC to PBTD @ 8107'

**9-2-09** – AWS #748 MOL

**9-23-09** – Rigless – Perf Dakota, 7996'-8096', with 63, 0.34" holes

**9-24-09** – Frac Dakota with 5372# 100 mesh BASF followed with 87,518# 40/70 BASF. Set FTBP @ 7950'. Perf lower Mancos, 7267'-7358', with 63, 0.34" holes. Frac lower Mancos with 5232 # 100 mesh BASF followed with 122,249# 40/70 BASF. Set FTBP @ 7246'. Perf upper Mancos, 7012'-7208', with 66, 0.34" holes. Frac upper Mancos with 6933# 100 mesh BASF followed with 124,962# 40/70 BASF

14. I hereby certify that the foregoing is true and correct

Signed \_\_\_\_\_  
Larry Higgins

Title Drilling COM Date 11-6-09

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa #160D	API #:
---------------------------	--------

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

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 1/4/10 10:55pm
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 <u>vertical</u> feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <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: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 1/4/10 Phone: (505)320-1670		

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: Rosa #160D	API #:
---------------------------	--------

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

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 1/20/10 10:55pm
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 vertical feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <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: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 1/20/10 Phone: (505)320-1670		

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

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

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
----------------------------------	---------------

<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) <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 2/15/10 10:55pm
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 vertical feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <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: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 2/15/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa #160D

API #:

Pit Type: ☒ Drilling ☐ Workover ☐ Cavitation Inspection: ☐ 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 / Time Reported to EH&S: 3/9/10 8:30am
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 3/9/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
----------------------------------	---------------

<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) <input type="checkbox"/> Weekly (Tech)
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Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 3/31/10 10:15pm
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 vertical feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <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: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 3/31/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa #160D	API #:
---------------------------	--------

Pit Type: <input checked="" type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Cavitation	Inspection: <input type="checkbox"/> Daily (Rig) <input type="checkbox"/> 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 / Time Reported to EH&S: 4/15/10 0851
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit pulled to be covered		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 4/15/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa #160D	API #:
---------------------------	--------

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

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 4/27/10 1251
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 vertical feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit pulled to be covered		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 4/27/10		
Phone: (505)320-1670		

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

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720 So. Main / PO Box 640  
Aztec, NM 87410  
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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
----------------------------------	---------------

<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) <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 5/7/10 1045
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 <u>vertical</u> feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit pulled to be covered		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 5/7/10 Phone: (505)320-1670		

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: Rosa unit# 160-D	API #: 30-039-30689
---------------------------------	---------------------

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 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: Drlg Consultant ( TDCI )		
Date: 08/18/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S



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

## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa unit# 160-D	API #: 30-039-30689
---------------------------------	---------------------

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 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: Drlg Consultant ( TDCI )		
Date: 08/19/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S



Exploration & Production  
San Juan Basin Operations

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

## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa unit# 160-D	API #: 30-039-30689
---------------------------------	---------------------

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: Drlg Consultant ( TDCI )		
Date: 08/20/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S



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San Juan Basin Operations  
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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa unit# 160-D	API #: 30-039-30689
---------------------------------	---------------------

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 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: Drlg Consultant ( TDCI )		
Date: 08/21/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S



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San Juan Basin Operations

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

## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa unit# 160-D	API #: 30-039-30689
---------------------------------	---------------------

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 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Free oil or sheen present on pit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: WILLIE MOCK		
Printed Name: WILLIE MOCK		
Title: Drlg Consultant ( TDCI )		
Date: 08/22/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
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<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) <input type="checkbox"/> Weekly (Tech)
--	--

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 5/25/10 830
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 <u>vertical</u> feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit pulled to be covered		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 5/25/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
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<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 type="checkbox"/> Weekly (Tech)
---	--

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 6/2/10 815
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 <u>vertical</u> feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit pulled to be covered		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 6/2/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
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<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 type="checkbox"/> 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 / Time Reported to EH&S: 6/17/10 815
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Pit covered last report		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 6/17/10 Phone: (505)320-1670		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
----------------------------------	---------------

<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 type="checkbox"/> Weekly (Tech)
---	--

Pit Liner intact (no visible tears)	X <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Report to EH&S immediately	Date / Time Reported to EH&S: 11/24/09 1:15 pm
Pit Properly Fenced (no fence on rig side if on site)	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 (liquid level 2 vertical feet from berm top)	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	X <input type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments: Doing the while Dave Randleman is on PTO		
Inspector Signature: Darrell W. Bays		
Printed Name:		
Title: Tech II		
Date: 11/25/09 Phone: (505)486-1836		

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa #160D	<b>API #:</b>
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<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 type="checkbox"/> Weekly (Tech)
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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 to EH&S: 12/23/09 1:55pm
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required (if site fully fenced)	
Pit Slopes intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Adequate freeboard (liquid level 2 vertical feet from berm top)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Does pit have oil or sheen on it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Comments:		
Inspector Signature: Dave Randleman		
Printed Name:		
Title: Tech		
Date: 12/23/09 Phone: (505)320-1670		

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



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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa unit# 160-D	API #: 30-039-30689
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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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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: Drlg Consultant ( TDCI )		
Date: 08/23/2009 Phone: ( 505 )7931276		

Record Retention: Submit with Closure  
File: EH&S

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type: Drilling      Workover      X Completion	Inspection: Daily (Rig)      Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 8/31/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type:	Drilling	Workover	X Completion	Inspection:	Daily (Rig)	Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes	No	If No, Report to EH&S immediately	Date Reported:	Time
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:					
Inspector Signature:					
Printed Name: Weldon Higgins					
Title: rig consultant					
Date: 9/01/09					
Phone: 505-320-4871					

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

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Aztec, NM 87410  
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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type: Drilling	Workover	X Completion	Inspection: Daily (Rig)	Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/02/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type: Drilling      Workover      X Completion	Inspection: Daily (Rig)      Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/23/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling        Workover        X Completion	<b>Inspection:</b> Daily (Rig)        Weekly (Tech)
---	---

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/24/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/25/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b>	Drilling	Workover	X Completion	<b>Inspection:</b>	Daily (Rig)	Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes	No	If No, Report to EH&S immediately	Date Reported:	Time
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:					
Inspector Signature:					
Printed Name: Weldon Higgins					
Title: rig consultant					
Date: 9/26/09					
Phone: 505-320-4871					

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type:	Drilling	Workover	X Completion	Inspection:	Daily (Rig)	Weekly (Tech)
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Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/27/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling    Workover <input checked="" type="checkbox"/> Completion	<b>Inspection:</b> 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 Reported:	Time
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Flare Pit free of liquids	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Not Applicable		
Comments:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/28/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling    Workover    X Completion	<b>Inspection:</b> Daily (Rig)    Weekly (Tech)
---	---

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/29/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 9/30/09		Phone: 505-320-4871	

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

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## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/02/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/12/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/13/09		Phone: 505-320-4871	

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

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling        Workover        X Completion	<b>Inspection:</b> Daily (Rig)        Weekly (Tech)
---	---

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/14/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/15/09		Phone: 505-320-4871	

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

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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

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling        Workover        X Completion	<b>Inspection:</b> Daily (Rig)        Weekly (Tech)
---	---

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/16/09		Phone: 505-320-4871	

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

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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

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b> Drilling        Workover        X Completion	<b>Inspection:</b> Daily (Rig)        Weekly (Tech)
---	---

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/17/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes	No	If No, Report to EH&S immediately	Date	Time
Pit Properly Fenced (no fence on rig side if on site)	X Yes	No	Not Required (if site fully fenced)	Reported:	
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:					
Inspector Signature:					
Printed Name: Weldon Higgins					
Title: rig consultant					
Date: 10/18/09					
Phone: 505-320-4871					

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/19/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/20/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	<input checked="" type="checkbox"/> Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
Pit Properly Fenced (no fence on rig side if on site)	<input checked="" type="checkbox"/> Yes    No    Not Required (if site fully fenced)		
Pit Slopes intact	<input checked="" type="checkbox"/> Yes    No		
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	<input checked="" type="checkbox"/> Yes    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    No    Not Applicable		
Comments:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/21/09		Phone: 505-320-4871	

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

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San Juan Basin Operations

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/22/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/23/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/24/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/25/09		Phone: 505-320-4871	

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

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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

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/26/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/27/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/28/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/29/09		Phone: 505-320-4871	

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

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San Juan Basin Operations  
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Aztec, NM 87410  
505-634-4200 / 505-634-4205 fax



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/29/09		Phone: 505-320-4871	

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

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

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 10/31/09		Phone: 505-320-4871	

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

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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

<b>Facility Name:</b> Rosa Unit #160D	<b>API #:</b> 30 - 039 - 30689
---------------------------------------	--------------------------------

<b>Pit Type:</b>	Drilling	Workover	X Completion	<b>Inspection:</b>	Daily (Rig)	Weekly (Tech)
------------------	----------	----------	--------------	--------------------	-------------	---------------

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 11/01/09		Phone: 505-320-4871	

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



**William's**

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

Pit Liner intact (no visible tears)	X Yes No If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 11/03/09		Phone: 505-320-4871	

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

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



## Temporary Pit Inspection

### FACILITY INFORMATION

Facility Name: Rosa Unit #160D	API #: 30 - 039 - 30689
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Pit Type:	Drilling	Workover	X Completion	Inspection:	Daily (Rig)	Weekly (Tech)
-----------	----------	----------	--------------	-------------	-------------	---------------

Pit Liner intact (no visible tears)	X Yes    No    If No, Report to EH&S immediately	Date Reported:	Time
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 vertical 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:			
Inspector Signature:			
Printed Name: Weldon Higgins			
Title: rig consultant			
Date: 11/04/09		Phone: 505-320-4871	

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: Rosa Unit #160D	API #: 30 - 039 - 30689
--------------------------------	-------------------------

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

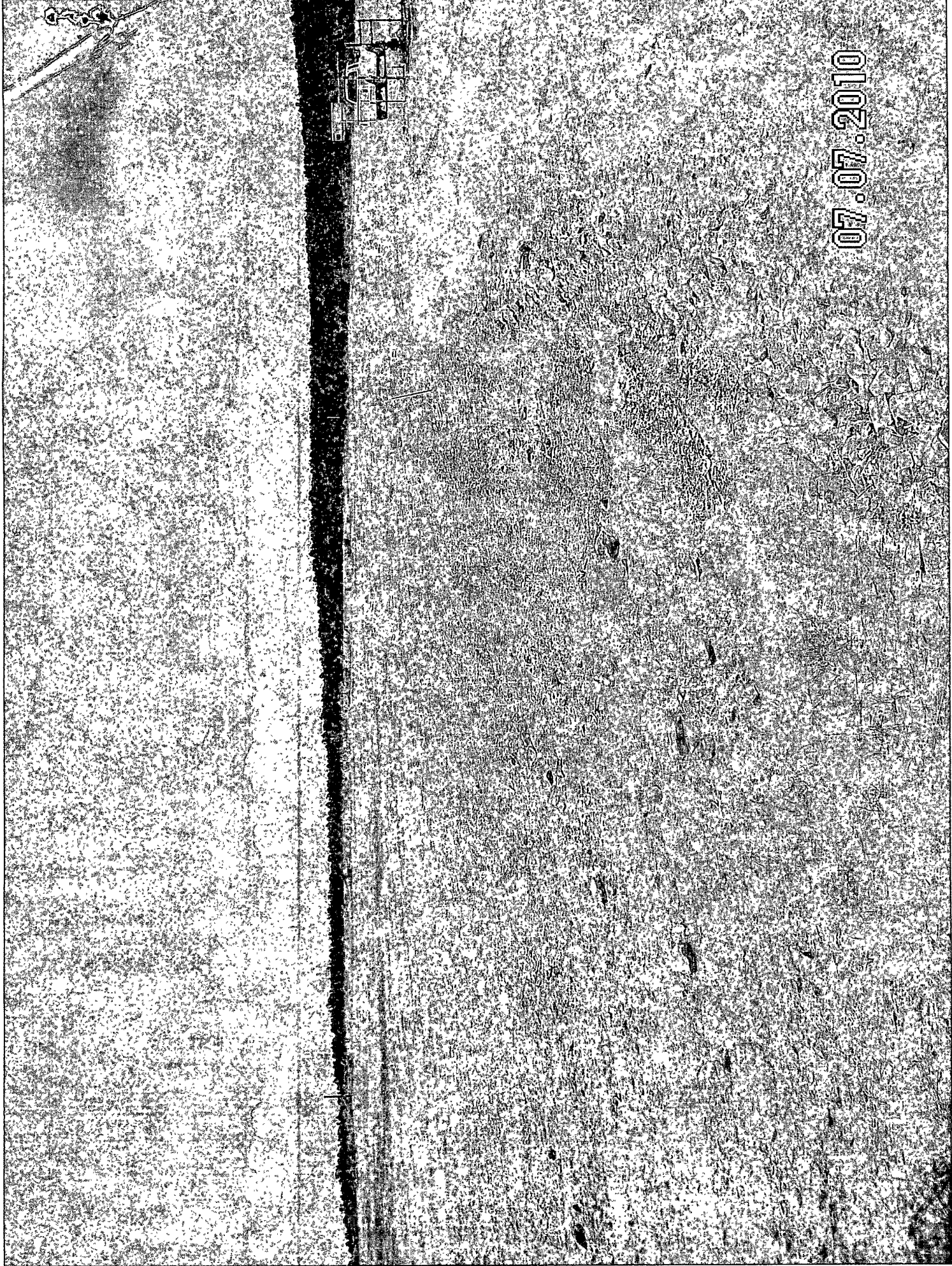
Pit Liner intact (no visible tears)	X Yes	No	If No, Report to EH&S immediately	Date Reported:	Time
Pit Properly Fenced (no fence on rig side if on site)	X Yes	No	Not Required (if site fully fenced)		
Pit Slopes intact	X Yes	No			
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	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:					
Inspector Signature:					
Printed Name: Weldon Higgins					
Title: rig consultant					
Date: 11/05/09					
Phone: 505-320-4871					

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

WILLIAMS PROD.  
ROSA UNIT #1600  
UNIT N SEC 25  
T31N R6E  
NO. 10. 13. 14 County  
Place Escondido

07.07.2010

1600



07.07.2010

1600



Exploration & Production  
PO Box 640  
Aztec, NM 87410  
505/634-4219  
505/634-4205 fax



## Transmittal

**To:** Brandon Powell  
NMOCD  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**From:** Tasha Meador  
San Juan- Permitting Technician  
505-634-4241  
tasha.meador@williams.com

**Date:**

**Re:** Supplemental Submittal

Temporary Pit Closure report: NMOCD Permit # 6827

Enclosed and per your direction, please find our supplemental submittal for the referenced temporary pit closure report.

Please advise if additional information is required. Thank you for your time and consideration. Please call or contact me if there are any questions.

Respectfully resubmitted,

Tasha Meador  
Williams Exploration & Production  
721 S Main Aztec, NM  
Office: 505-634-4200  
Direct: 505-634-4241  
Fax: 505-634-4205  
[tasha.meador@williams.com](mailto:tasha.meador@williams.com)

Encl:

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 & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

11/5/09 API Number 30-039-30689	Pool Code 97232 / 72319 / 71599	Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
Property Code 17033	Property Name ROSA UNIT	Well Number 160D
GRID No. 120782	Operator Name WILLIAMS PRODUCTION COMPANY	Elevation 6392'

10 Surface Location

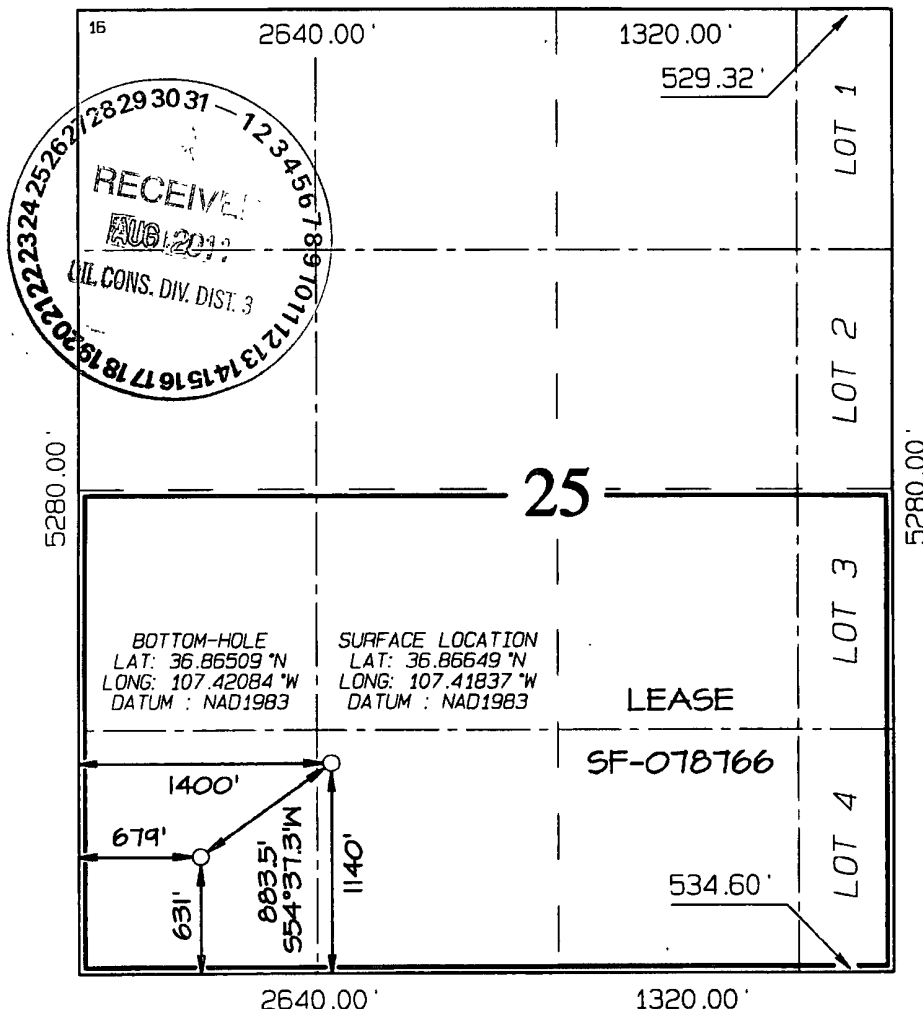
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	25	31N	6W		1140	SOUTH	1400	WEST	RIO ARriba

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
M	25	31N	6W		631	SOUTH	679	WEST	RIO ARriba

12 Dedicated Acres 272.32 Acres - S/2	13 Joint or Infill	14 Consolidation Code	15 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Tasha Meador* 8/31/11  
Signature Date  
*Tasha Meador*  
Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: AUGUST 31, 2009  
Date of Survey: MAY 16, 2009  
Signature and Seal of Professional Surveyor

*JASON C. EDWARDS*  
15269  
REGISTERED PROFESSIONAL SURVEYOR  
NEW MEXICO  
JASON C. EDWARDS  
Certificate Number 15269

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		<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. 30-039-30689					
		2. Type of Lease <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED/INDIAN					
		3. State Oil & Gas Lease No SF-078766					
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>							
4. Reason for filing.  <input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)				5. Lease Name or Unit Agreement Name Rosa  6 Well Number Rosa Unit #160D			
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	
Surface:						N/S Line	
BH:						Feet from the	
						E/W Line	
						County	
13. Date Spudded	14. Date T D Reached	15. Date Rig Released 11/5/2009		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.							
33. If an on-site burial was used at the well, report the exact location of the on-site burial:							
Latitude: 36.86649    Longitude: 107.41837    NAD 1927 1983							
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature <u>Tasha Meador</u> Printed Name <u>Tasha Meador</u> Title <u>Permit Technician</u> Date <u>8/31/11</u>							
E-mail Address: <u>tasha.meador@williams.com</u>							