

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
Part of Devon Clean-up Program

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.

729
Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

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

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

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

1.
Operator: DEVON ENERGY PRODUCTION COMPANY, L.P. OGRID #: 6137
Address: c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401
Facility or well name: NEBU #423A
API Number: 30-039-30510 OCD Permit Number: _____
U/L or Qtr/Qtr I Section 8 Township 30-N Range 07-W County: Rio Arriba
Center of Proposed Design: Latitude 36.82425 Longitude -107.58874 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 12 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☒ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: 12,857 bbl Dimensions: L 120' x W 75' x D 10'

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

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

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

6.

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

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

7.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

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

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

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

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

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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

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

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

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

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

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

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

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

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

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

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

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

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

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

☐ Yes ☐ No

~~Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.~~

~~- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site~~

~~☐ Yes ☐ No~~

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

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

☐ Yes ☐ No

Within the area overlying a subsurface mine.

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

☐ Yes ☐ No

Within an unstable area.

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

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

Operator Application Certification:

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

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20.

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

OCD Representative Signature: Jonathan D. Kelly Approval Date: 11/29/2011

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: 12/18/08

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 N36.82425 Longitude W-107.58874 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): Mike Pippin Title: Petroleum Engineer

Signature: Mike Pippin Date: June 25, 2009

e-mail address: mike@pippinllc.com Telephone: 505-327-4573

DEVON ENERGY
PIT CLOSURE NEBU #423A

Block #24, Box #4

Samples were mistakenly not taken on this well before the pit closed.

Block #24, Box #6

All liquids were hauled to one of the following company disposal wells:

Middle Mesa SWD #2	SWD-441
Middle Mesa SWD #1	SWD-365
Simms Mesa SWD #1	SWD-339
Pump Mesa SWD #1	SWD-366

Block #24, Box #7

The liner was removed above "mud level" after stabilization. Pit contents were mixed with clean soil. After solidification and testing, the pit was backfilled with compacted, non-waste containing, soil. The pit was filled with clean excavated dirt and covered with 1 foot of top soil.

Block #24, Box #8

The area where the temporary drilling pit has been buried in place was seeded on 6/1/09 with 60 lbs of BLM seed mix for precipitation less than 10".

Seed was no till & drill over a total acreage of 4.0 acres. The seed rate was 20 lbs PLS/acre for mechanical and 35 lbs PLS/acre for hand/broadcast and Harrow.

Submit To Appropriate District Office Two Copies District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S St Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 July 17, 2008								
		1. WELL API NO. 30-039-30510								
		2. Type of Lease <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED/INDIAN								
		3. State Oil & Gas Lease No								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing. <input type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input checked="" type="checkbox"/> C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15 17.13.K NMAC)		5. Lease Name or Unit Agreement Name Northeast Blanco Unit 6. Well Number: 423A								
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: Devon Energy Production Company, L.P.		9. OGRID: 06137								
10. Address of Operator:		11. Pool name or Wildcat:								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
13. Date Spudded	14 Date T.D. Reached	15. Date Drilling Rig Released 11/3/08		16. Date Completed (Ready to Produce			17. Elevations (DF and RKB, RT, GR, etc)			
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?			21. Type Electric and Other Logs Run			
22 Producing Interval(s), of this completion - Top, Bottom, Name										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB /FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
26.						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
Date of Test	Hours Tested	Choke Size	Prod'n For	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr)				
29 Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By.			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude 36 82425				Longitude -107 58874				NAD 1927 1983 <input checked="" type="checkbox"/>		
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		Printed Name		Mike Pippin		Title: Petroleum Engineer		Date: 6/25/09		
E-mail Address: mike@pippinllc.com										

Castro, Melisa

From: Castro, Melisa
Sent: Wednesday, August 20, 2008 10:52 AM
To: M Dombrowski - BOR SC
Subject: NEBU 423A Temproary Pit Closure Notification
Attachments: Pit Closure Plan.doc

Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 552 7917 Phone
www.devonenergy.com

August 20, 2008

IN RE: NEBU 423A
API # 30-039-30510
NE SE 1,610' FSL & 905' FEL
Sec. 8, T30N, R7W
Rio Arriba County, New Mexico

VIA EMAIL:

Dear Mr. Dombrowski,

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify the surface owners of an on-site burial of a temporary pit. Devon Energy Production Company, L.P. is herby providing written documentation of our intention to close the temporary pit associated with the aforementioned location by means of in place on-site burial.

Please feel free to contact me with any questions or require further information. My contact information is listed below.

Respectfully,

Melisa S. Castro
Devon Energy Production Company, L.P.
Senior Staff Operations Technician
405-323-3184 - Cell.
405-323-1357 - Fax
Melisa.Castro@dvn.com

8/20/2008

DEVON ENERGY PRODUCTION COMPANY, L.P.

NEBU # 423A

Survey Location of Reserve Pit On-Site Burial Marker

Within the SE¼ of Sec.8, T30N, R7W, N.M.P.M.,
Rio Arriba County, New Mexico

8

SE¼

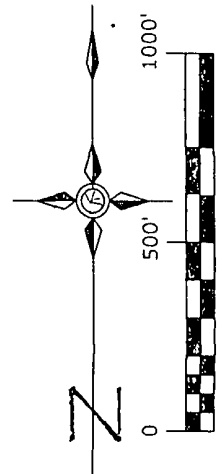
BOR

DEVON ENERGY PROD CO. L.P.
NEBU # 423A

UNIT I SEC. 8 T30N R7W NMPM
ON SITE BURIAL LOCATION

Lat: 36.82425°
Long: 107.58874° (83)

Existing Wellhead
NEBU # 423A
1610' F/SL 905' F/EL



8 9
17 16

I, Gary D. Vann, a registered professional Land Surveyor in the state of New Mexico, hereby certify that the survey represented on this plat was performed by me or under my supervision, is true and correct to the best of my knowledge and belief, and meets the minimum standards for unclassified surveys in the state of New Mexico.

G. D. Vann
Gary D. Vann
Registered P.L.S. # 7016
State of New Mexico



State of New Mexico
County of San Juan

This instrument was acknowledged before me this 11 day of May, 2009 by Gary D. Vann.

Lucella L. L. L.
Notary Public
State of New Mexico
My Commission Expires 10/25/2010

DEVON ENERGY
PRODUCTION COMPANY, L.P.

Date Surveyed:
April 16, 2009

Revision Date:

Scale:
1" = 500'

Basis of Bearing: GPS Observations
Geodetic Bearing (True North)

VANN SURVEYS

P. O. Box 1306
Farmington, NM 87499

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
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AS DRILLED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30510	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 19641	⁵ Property Name Northeast Blanco Unit	⁶ Well Number 423A
⁷ OGRID No. 06137	⁸ Operator Name Devon Energy Production Company, L.P.	⁹ Elevation 6285' GL

¹⁰ Surface Location									
UL or lot no. I	Section 8	Township 30-N	Range 7-W	Lot Idn	Feet from the 1610'	North/South line SOUTH	Feet from the 905'	East/West line EAST	County San Juan

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. I	Section 8	Township 30-N	Range 7-W	Lot Idn	Feet from the 1953'	North/South line SOUTH	Feet from the 1131'	East/West line EAST	County San Juan

¹² Dedicated Acres E/2-320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	RCVD NOV 21 '08 OIL CONS. DIV.
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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. 5279' ® DIST. 3

5280' ®					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 undivided 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 this division. Signature: <i>Mike Pippin</i> Date: 11/19/08
					Mike Pippin Printed Name
5280' ®					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. 9/16/08 Date of Survey Signature and Seal of Professional Surveyor: Gary D. Vann 7016 Certificate Number

5289' (R)

8 11/25

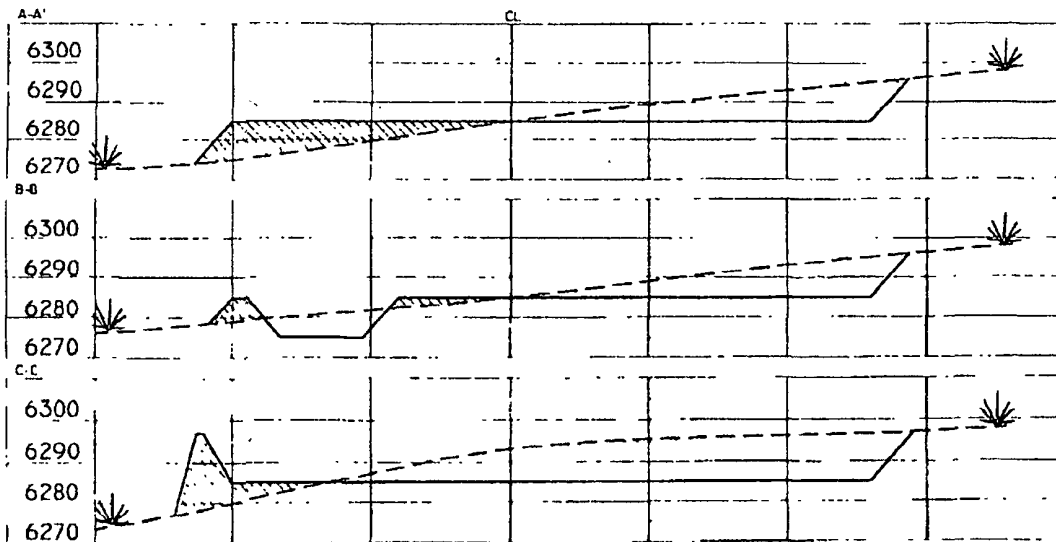
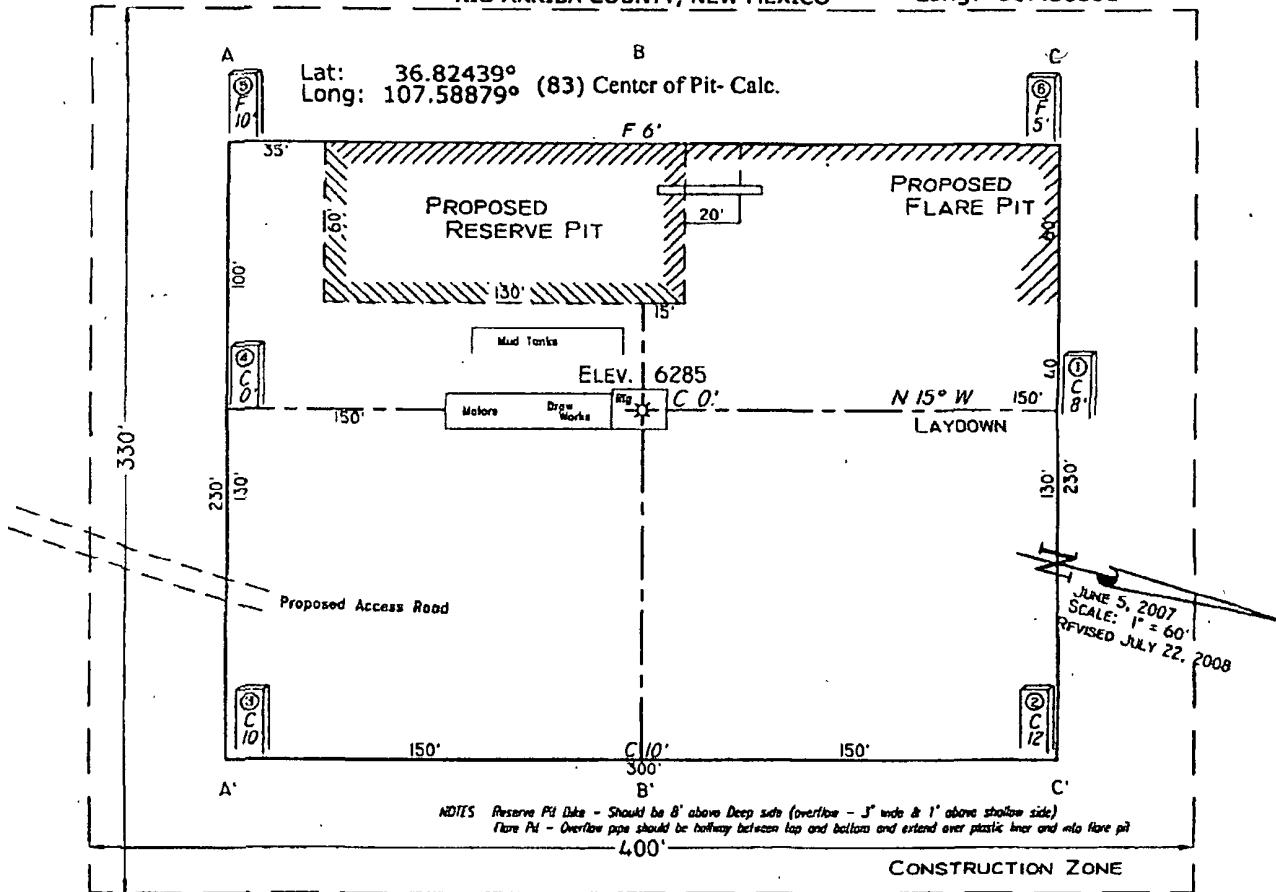
PAD LAYOUT PLAN & PROFILE
DEVON ENERGY PRODUCTION COMPANY, L.P.

Nebu # 423A

1610' F/SL 905' F/EL

SEC. 8, T30N, R7W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

Lat: 36.82429°
Long: 107.58851° (83)

07/23/2008 10:37AM (GMT-05:00)

WELL SITE DOCUMENTATION

Company Name: DEVON ENERGY Well Name: NEBU 423A

Legal Description: Section 8 TWSHP 30N Range 7W

County: Rio Arriba San Juan State: NM

Area Seeded: (See Attached Digital Photos) Dates of Seeding: 6-01-2009

Seed Mix: Southwest Colorado Seed less than 10 BLM NM/CO Certified Mix

NOTE: Application rate is based upon pure live seed (PLS). BLM certified seed is delivered from Dolores, Colorado in 20 lb. sacks. **100% PLS PER BAG**. Included in the cost to customer per acre is \$6.40 per PLS pound. BLM recommended seeding rate for mechanical application is 13.25 LBS PLS per acre and 26.50 LBS per acre for broadcast application. ***Based upon BLM application rate chart dated May 5, 2006***

Seed Rate: Mechanical: 20.00 lbs PLS/acre
Hand/Broadcast and Harrow: 30.00 lbs PLS/acre

***Based upon BLM application rate chart**

Mechanical Acreage: Acreage Meter **Start: 1352.6 End: 1355.4**

No-Till Drill Application Acreage: **Total: 3.0**

Note: An additional 1.0 acre charge for rocky topsoil conditions. **1.0**

Broadcast/Harrow Application Acreage: **Total: 4.0 Acres**

Total Acreage Seeded:

No-Till Drill Application **TOTAL: 4.0 Acres 60 Lbs**

Seeding Process: 2006 John Deere 5205 MFW 56 HP Tractor
2004 Great Plains No-Till Drill Model 605 NT
2006 Land Pride Broadcast
2006 8 ft. Harrow

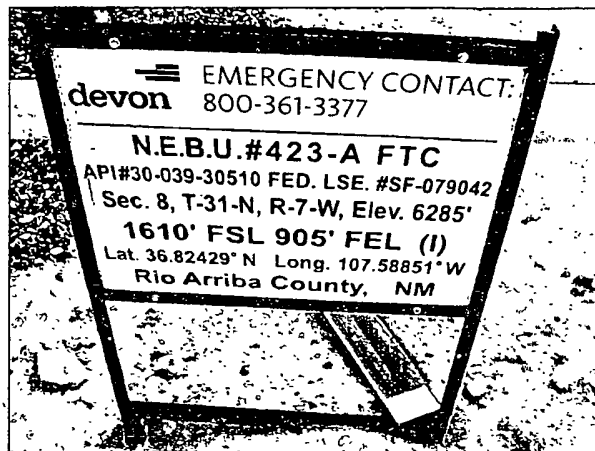
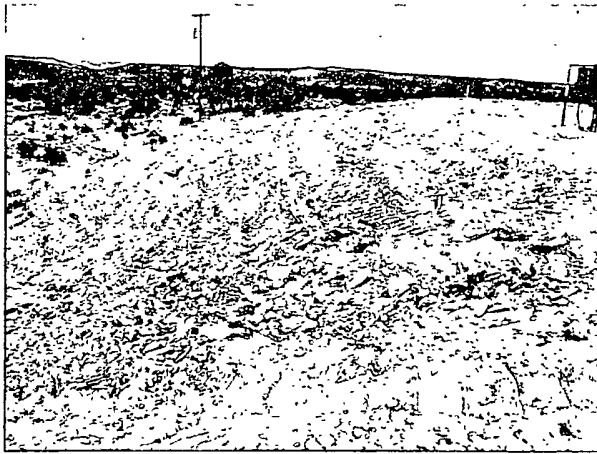
Topography: Dry clay/loam with some evidence of small to medium sized sandstone rock. Steep to moderate slope conditions on three sides of location. Some seeder slippage due to steep slope conditions. Utilized no-till drill application and pre-harrowed site location.


Comments: A separate invoice will be created for the following services rendered:

- Operator Hourly Rate: \$35.00 X 9 = \$315.00
- Tractor Hourly Rate: \$75.00 X 4.5 = \$337.50
- Fuel/Milage Surcharge: \$2.00 X 118 Miles = \$236.00
- Seeding Cost: \$600.00 Per Acre X 4 acres = \$2,400.00
- NOTE: Cost includes the use of seeders and seed cost per acre.
- Total Invoice Cost: \$3,288.50

NOTE: There is a minimum charge of \$600.00 per acre for each well site.

ST Seeding and Tractor P.O. Box 551 Bloomfield, NM 87413 Ph: 505.793.0364



 EMERGENCY CONTACT
devon 800-361-3377

N.E.B.U.#423-A FTC
API#30-039-30510 FED. LSE. #SF-079042
Sec. 8, T-31-N, R-7-W, Elev. 6285'
1610' FSL 905' FEL (I)
Lat. 36.82429° N Long. 107.58851° W
Rio Arriba County, NM

DEVON ENERGY PROD CO. L.P.

NEBU 423 A



UNIT I SEC. 8 T.30N R.7W NMPM

ON SITE BURIAL LOCATION

DEVON ENERGY PRODUCTION COMPANY, L.P.

Mike Pippin
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

October 27, 2011

NMOCD
c/o Jonathan Kelly
1000 Rio Brazos Rd.
Aztec, NM 87410

RE: Pit Closure Packages from 2008 and 2009, Form C-144
Northeast Blanco Unit

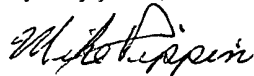
Dear Mr. Kelly,

I have reviewed the list of Northeast Blanco Unit wells you sent me on 10/26/11. As you indicated, many of the pit closure packages from 2008 and 2009 on these wells did not include proof that notice was given to the NMOCD within one week of the drilling pit closure, nor did they include proof of the pit inspections. Although we believe that both the notices and the pit inspections occurred, this was an oversight that the proof was not included in the pit closure packages. Unfortunately, this data is no longer available.

In the future, Devon will include proof of drilling pit closure notice and pit inspection logs in all drilling pit closure packages.

Please contact me at 505-327-4573 should you have any questions.

Very truly yours,



Mike Pippin PE
Petroleum Engineer

RCVD OCT 31 '11

OIL CONS. DIV.

DIST. 3

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

Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-09-11
Laboratory Number:	60200	Date Sampled:	11-03-11
Chain of Custody No:	12890	Date Received:	11-03-11
Sample Matrix:	Soil	Date Extracted:	11-04-11
Preservative:	Cool	Date Analyzed:	11-07-11
Condition:	Intact	Analysis Requested:	8015 TPH

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

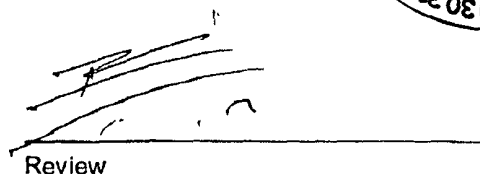
ND - Parameter not detected at the stated detection limit.

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

Comments: Confirmation Sampling/ NEBU #423A




 Analyst


 Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-07-11 QA/QC	Date Reported:	11-09-11
Laboratory Number:	60201	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	40854	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40854	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	8.5	0.2
Diesel Range C10 - C28	8.0	0.1

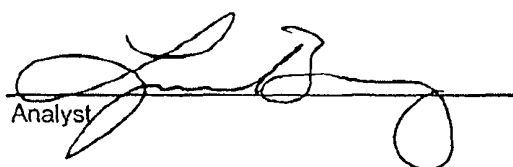
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	7.5	7.2	3.91%	0 - 30%
Diesel Range C10 - C28	22.4	24.8	10.5%	0 - 30%

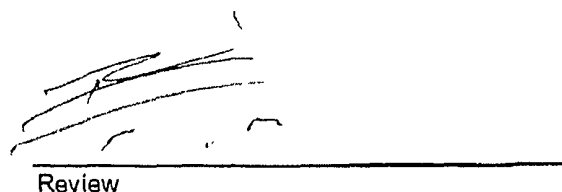
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	7.5	250	222	86.1%	75 - 125%
Diesel Range C10 - C28	22.4	250	239	87.9%	75 - 125%

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 60199-60205, 60212 and 60213.

Analyst 

Review 

Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-08-11
Laboratory Number:	60200	Date Sampled:	11-03-11
Chain of Custody:	12890	Date Received:	11-03-11
Sample Matrix:	Soil	Date Analyzed:	11-07-11
Preservative:	Cool	Date Extracted:	11-04-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

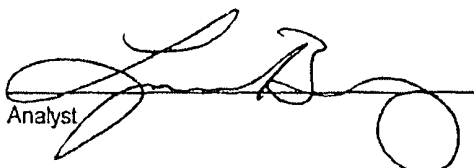
ND - Parameter not detected at the stated detection limit.

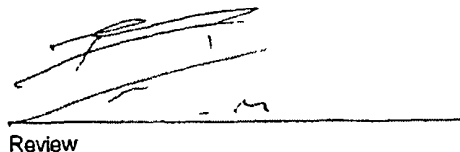
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.0 %
	1,4-difluorobenzene	99.1 %
	Bromochlorobenzene	99.5 %

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: Confirmation Sampling/ NEBU #423A

Analyst 

Review 

Client:	N/A	Project #:	N/A
Sample ID:	1107BCAL QA/QC	Date Reported:	11-08-11
Laboratory Number:	60199	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.0639E+004	1.0660E+004	0.2%	ND	0.1
Toluene	2.2801E+004	2.2847E+004	0.2%	ND	0.1
Ethylbenzene	5.2825E+003	5.2730E+003	0.2%	ND	0.1
p,m-Xylene	1.4203E+004	1.4231E+004	0.2%	ND	0.1
o-Xylene	6.8952E+003	6.9090E+003	0.2%	ND	0.1

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

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	530	106%	39 - 150
Toluene	ND	500	524	105%	46 - 148
Ethylbenzene	ND	500	518	104%	32 - 160
p,m-Xylene	ND	1000	1,040	104%	46 - 148
o-Xylene	ND	500	528	106%	46 - 148

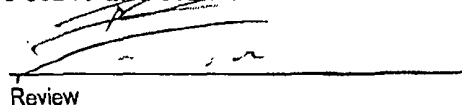
ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 Photolionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 60199-60205, 60212-60213 and 60222.

Analyst 

Review 



envirotech
Analytical Laboratory

Chloride

Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-08-11
Lab ID#:	60200	Date Sampled:	11-03-11
Sample Matrix:	Soil	Date Received:	11-03-11
Preservative:	Cool	Date Analyzed:	11-07-11
Condition:	Intact	Chain of Custody:	12890

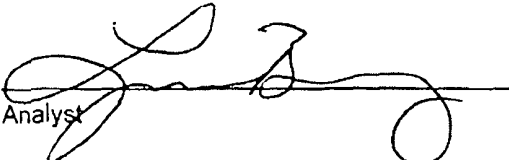
Parameter	Concentration (mg/Kg)
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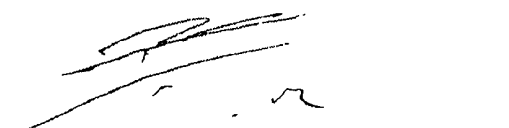
Total Chloride

70

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: **Confirmation Sampling/ NEBU #423A**


Analyst


Review

CHAIN OF CUSTODY RECORD

12890

Client: DEVON			Project Name / Location: <i>Combination Sampling / NEBU #423A</i>			ANALYSIS / PARAMETERS																	
Client Address:			Sampler Name: <i>F. Aragon</i>																				
Client Phone No.:			Client No.: <i>01058-0154</i>																				
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl Cu			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	
<i>Pit Comp</i>	<i>11-3-11</i>	<i>14:00</i>	<i>60200</i>	<i>Soil Solid</i>	<i>1-4oz</i>				<i>X</i>	<i>X</i>	<i>X</i>								<i>X</i>			<i>Y</i>	<i>Y</i>
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
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Relinquished by: (Signature) <i>[Signature]</i>				Date <i>11-3-11</i>	Time <i>16:05</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>11/3/11</i>				Time <i>16:05</i>									
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	



envirotech
Analytical Laboratory

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

12300

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



Devon Energy Corporation
1751 HWY 511/P.O. Box 6459
Navajo Dam, NM 87419

505 324 5600 Phone
www.devonenergy.com

November 28, 2011

New Mexico Oil Conservation Division
Attention: Jonathan Kelly
1000 Rio Brazos Rd
Aztec, NM 87410

Dear Mr. Kelly,

As indicated on the list sent to us on 10/26/2011, permit number 729 was missing the sample results for the pit closure on the NEBU 423A. Although we believe this sample was taken, the results did not get submitted to the NMOCD. This well was drilled and completed at the end of our 2008 drilling program and with the time that has passed; we were unable to locate the results from the original testing. Due to the lack of results we had the location re-sampled by Envirotech on November 3, 2011 and the results have been submitted to the NMOCD.

In the future, Devon will make sure to submit all proper paperwork and results in a more timely manner. To ensure this, we have created a check list to follow.

Please contact me at 505-320-1395 if you should have any additional questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Jordan".

Robert Jordan
Production Foreman





30-039-30510
December 29, 2011

Ms. Lindsey Anderson
Devon Energy
PO Box 6459
Navajo Dam, New Mexico 87419



Project Number 01058-0154

Phone: (505) 324-5607

RE: DRILL PIT CLOSURE DOCUMENTATION FOR THE NEBU #423A WELL SITE, RIO ARriba COUNTY, NEW-MEXICO

Dear Ms. Anderson,

Enclosed please find the field notes and analytical results for drill pit closure activities conducted at the NEBU #423A well site located in Section 8, Township 30 North, Range 7 West, Rio Arriba County, New Mexico. On November 2, 2011, Envirotech personnel were on-site to collect a five (5)-point composite sample from a reclaimed drill pit. Using a hand auger, Envirotech personnel augered to approximately nine (9) feet below ground surface, where a five (5)-point composite sample was collected; see attached **Field Notes**. The sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for gasoline and diesel range hydrocarbons using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021, and for total chlorides using USEPA Method 4500. Upon review of the analytical results, it was discovered that not all required analyses were requested by Envirotech personnel. At the time this was observed, the sample's holding time had expired. This incident was reported to Ms. Lindsey Anderson and Mr. Robert Jordan of Devon Energy on December 1, 2011. Envirotech recommended re-sampling of the drill pit and analyzing the sample for all required analysis.

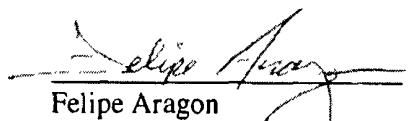
Envirotech personnel returned to the location on December 1, 2011 for re-sampling of the drill pit. Using a hand auger, Envirotech personnel augered to approximately nine (9) feet six (6) inches below ground surface where a five (5)-point composite sample was collected; see attached **Field Notes**. The sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for gasoline and diesel range hydrocarbons using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021, and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory limits for all constituents analyzed; see attached **Analytical Results**. Envirotech, Inc. recommends no further action in regards to this incident.

12/29/2011

Devon Energy
NEBU 423A Well Site
Reclaimed Drill Pit Sampling
Project Number: 01058-0154

We apologize for any inconvenience and appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Felipe Aragon
Environmental Field Technician
faragon@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 01058

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-02-11 QA/QC	Date Reported:	12-07-11
Laboratory Number:	60481	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-02-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40879	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40879	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	0.6	0.2
Diesel Range C10 - C28	1.5	0.1


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	239	95.7%	75 - 125%
Diesel Range C10 - C28	ND	250	209	83.4%	75 - 125%

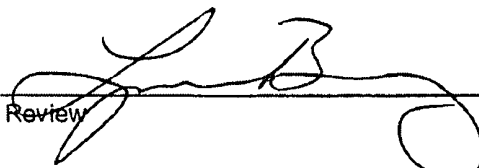
ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 60299, 60481-60483, 60487-60492 and 60497



 Analyst



 Review

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	Devon Energy	Project #:	01058-0154
Sample ID:	Pit Comp @ 9'6 BGS	Date Reported:	12-08-11
Laboratory Number:	60497	Date Sampled:	12-01-11
Chain of Custody:	13002	Date Received:	12-01-11
Sample Matrix:	Soil	Date Analyzed:	12-07-11
Preservative:	Cool	Date Extracted:	12-01-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.6	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	3.5	0.9
Total BTEX	5.1	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.3 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	93.7 %

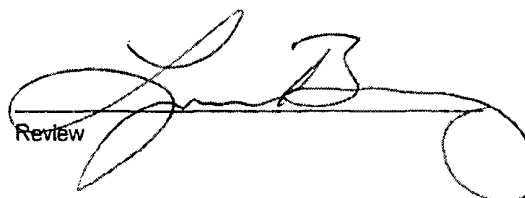
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Pit Closure/ NEBU 423A



 Analyst



 Review

Client:	N/A	Project #:	N/A
Sample ID:	1207BBLK QA/QC	Date Reported:	12-07-11
Laboratory Number:	60529	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	2.2785E+007	2.2831E+007	0.2%	ND	0.1
Toluene	2.3071E+007	2.3118E+007	0.2%	ND	0.1
Ethylbenzene	2.0214E+007	2.0254E+007	0.2%	ND	0.1
p,m-Xylene	5.0478E+007	5.0579E+007	0.2%	ND	0.1
o-Xylene	1.8703E+007	1.8740E+007	0.2%	ND	0.1

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	37.9	36.7	3.2%	0 - 30%	1.0
Ethylbenzene	60.9	59.1	3.0%	0 - 30%	1.0
p,m-Xylene	827	812	1.8%	0 - 30%	1.2
o-Xylene	250	245	2.0%	0 - 30%	0.9

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	418	83.6%	39 - 150
Toluene	37.9	500	447	83.1%	46 - 148
Ethylbenzene	60.9	500	549	97.9%	32 - 160
p,m-Xylene	827	1000	1,660	90.9%	46 - 148
o-Xylene	250	500	714	95.3%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 Photolonization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 60497, 60529-60531**

Analyst

Review

Client:	Devon Energy	Project #:	01058-0154
Sample ID:	Pit Comp @ 9'6" BGS	Date Reported:	12-12-11
Laboratory Number:	60497	Date Sampled:	12-01-11
Chain of Custody No:	13002	Date Received:	12-01-11
Sample Matrix:	Soil	Date Extracted:	12-12-11
Preservative:	Cool	Date Analyzed:	12-12-11
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	77.0	6.4
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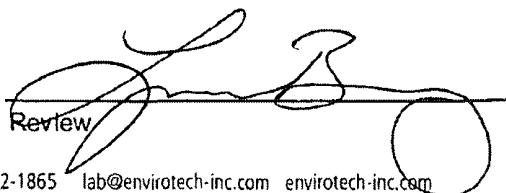
ND = Parameter not detected at the stated detection limit.

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

Comments: **Pit Closure/ NEBU 423A**



Analyst


Review



**EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS
QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	12-12-11
Laboratory Number:	12-12-TPH.QA/QC 60577	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	12-12-11
Preservative:	N/A	Date Extracted:	12-12-11
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	11-16-11	12-12-11	1,610	1,720	6.8%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	6.4


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	19.3	19.3	0.0%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	19.3	2,000	1,670	82.7%	80 - 120%

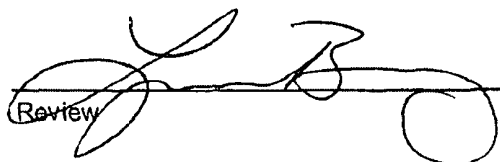
ND = Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 60497 and 60573-60580



Analyst



Review

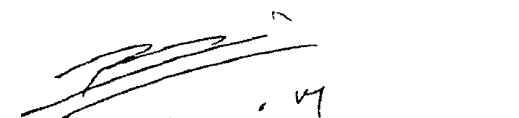
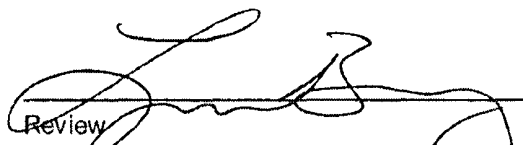
Chloride

Client:	Devon Energy	Project #:	04108-0136
Sample ID:	Pit Comp @ 9' 6" BGS	Date Reported:	12-05-11
Lab ID#:	60497	Date Sampled:	12-01-11
Sample Matrix:	Soil	Date Received:	12-01-11
Preservative:	Cool	Date Analyzed:	12-02-11
Condition:	Intact	Chain of Custody:	13002

Parameter	Concentration (mg/Kg)
Total Chloride	220

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

Comments: **Pit Closure/ NEBU 423A**


Analyst
Review

CHAIN OF CUSTODY RECORD

13002

Client: <u>Devon Energy</u>			Project Name / Location: <u>Pit Closure / NEBU #234</u>			ANALYSIS / PARAMETERS													
Email results to: <u>F. Aragon</u>			Sampler Name: <u>F. Aragon</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <u>01058-0154</u>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl	Calc												
<u>Pit Closure 6" dia</u>	<u>12-1-11</u>	<u>12:30</u>	<u>100497</u>	<u>1-4oz</u>			<u>X</u>	<u>X</u>	<u>X</u>					<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>
Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>				Date	Time								
Relinquished by: (Signature) <u>[Signature]</u>				<u>12-1-11</u>	<u>16:15</u>	Received by: (Signature) <u>[Signature]</u>				<u>12-1-11</u>	<u>4:20</u>								
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

PAGE NO: _____ OF _____	 envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <i>F. Aragon</i>
DATE STARTED: <i>12-1-11</i>		LAT: <i>36.82429422</i>
DATE FINISHED: _____		LONG: <i>-107.5885332</i>

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: *NEBU* WELL #: *423A* TEMP PIT: *X* PERMANENT PIT: BGT:
 LEGAL ADD: UNIT: *I* SEC: *8* TWP: *30N* RNG: *7W* PM:
 QTR/FOOTAGE: *1610'S 1905E* CNTY: *R.A* ST: *N.M*

EXCAVATION APPROX: _____ FT. X _____ FT. X _____ FT. DEEP CUBIC YARDAGE:
 DISPOSAL FACILITY: _____ REMEDIATION METHOD:
 LAND OWNER: _____ API: *30-037-30510* BGT / PIT VOLUME:
 CONSTRUCTION MATERIAL: *Earth* DOUBLE-WALLED, WITH LEAK DETECTION:

LOCATION APPROXIMATELY: _____ FT. FROM WELLHEAD
 DEPTH TO GROUNDWATER: _____

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

PERMANENT PIT OR BGT

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS

TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
	STD						
<i>12:56</i>	<i>Pt Pump</i>	<i>1</i>				<i>NS</i>	
		<i>2</i>					
		<i>3</i>					
		<i>4</i>					
		<i>5</i>					
		<i>6</i>					

PERIMETER

FIELD CHLORIDES RESULTS

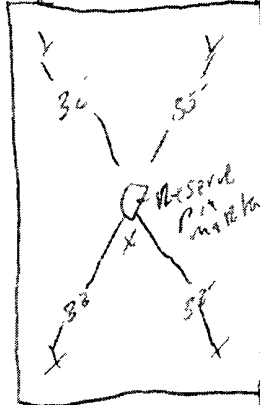
PROFILE

SAMPLE ID	READING	CALC. (mg/kg)

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)

Sample collected @ 9'6"



LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
<i>1</i>	BENZENE	
<i>1</i>	BTEX	
<i>1</i>	GRO & DRO	
<i>1</i>	CHLORIDES	
<i>1</i>	418.1	

NOTES: *Re Sampled p.t. due to ND results from initial sampling*

Ranking:

WORKORDER #

WHO ORDERED

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

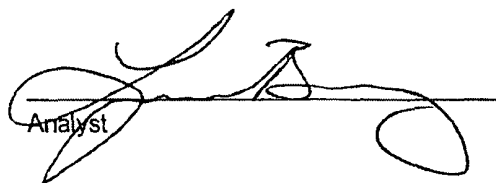
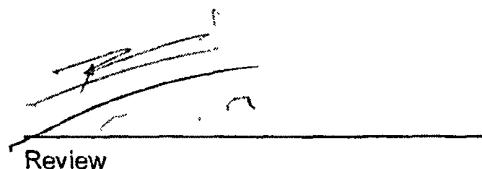
Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-09-11
Laboratory Number:	60200	Date Sampled:	11-03-11
Chain of Custody No:	12890	Date Received:	11-03-11
Sample Matrix:	Soil	Date Extracted:	11-04-11
Preservative:	Cool	Date Analyzed:	11-07-11
Condition:	Intact	Analysis Requested:	8015 TPH

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

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: **Confirmation Sampling/ NEBU #423A**


Analyst
Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-07-11 QA/QC	Date Reported:	11-09-11
Laboratory Number:	60201	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	40854	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40854	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	8.5	0.2
Diesel Range C10 - C28	8.0	0.1

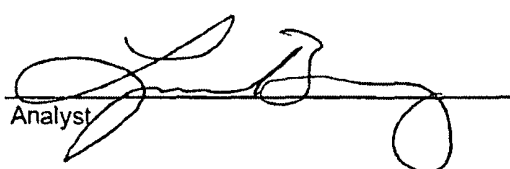
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	7.5	7.2	3.91%	0 - 30%
Diesel Range C10 - C28	22.4	24.8	10.5%	0 - 30%

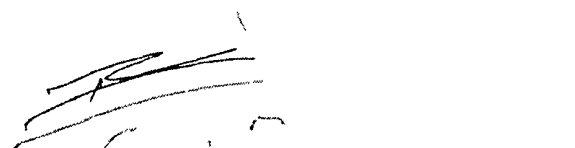
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	7.5	250	222	86.1%	75 - 125%
Diesel Range C10 - C28	22.4	250	239	87.9%	75 - 125%

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 60199-60205, 60212 and 60213.

Analyst 


Review

Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-08-11
Laboratory Number:	60200	Date Sampled:	11-03-11
Chain of Custody:	12890	Date Received:	11-03-11
Sample Matrix:	Soil	Date Analyzed:	11-07-11
Preservative:	Cool	Date Extracted:	11-04-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

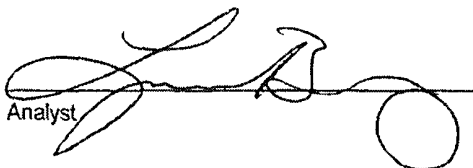
ND - Parameter not detected at the stated detection limit.

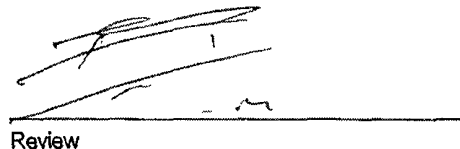
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.0 %
	1,4-difluorobenzene	99.1 %
	Bromochlorobenzene	99.5 %

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: Confirmation Sampling/ NEBU #423A

Analyst 

Review 

Client:	N/A	Project #:	N/A
Sample ID:	1107BCAL QA/QC	Date Reported:	11-08-11
Laboratory Number:	60199	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	1.0639E+004	1.0660E+004	0.2%	ND	0.1
Toluene	2.2801E+004	2.2847E+004	0.2%	ND	0.1
Ethylbenzene	5.2625E+003	5.2730E+003	0.2%	ND	0.1
p,m-Xylene	1.4203E+004	1.4231E+004	0.2%	ND	0.1
o-Xylene	6.8952E+003	6.9090E+003	0.2%	ND	0.1

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

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	530	106%	39 - 150
Toluene	ND	500	524	105%	46 - 148
Ethylbenzene	ND	500	518	104%	32 - 160
p,m-Xylene	ND	1000	1,040	104%	46 - 148
o-Xylene	ND	500	528	106%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 60199-60205, 60212-60213 and 60222.

Analyst

Review

Client:	Devon	Project #:	01058-0154
Sample ID:	Pit Comp	Date Reported:	11-08-11
Lab ID#:	60200	Date Sampled:	11-03-11
Sample Matrix:	Soil	Date Received:	11-03-11
Preservative:	Cool	Date Analyzed:	11-07-11
Condition:	Intact	Chain of Custody:	12890

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

Total Chloride**70**

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: **Confirmation Sampling/ NEBU #423A**


Analyst
Review

CHAIN OF CUSTODY RECORD

12890

Client: DEVON			Project Name / Location: <i>Confirmation Sampling / NEB4 #423A</i>			ANALYSIS / PARAMETERS																																													
Client Address:			Sampler Name: <i>F. Aragon</i>			<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI															TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																						
Client Phone No.:			Client No.: <i>01058-0154</i>																																																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																											
<i>Pit Comp</i>	<i>11-3-11</i>	<i>14:00</i>	<i>60200</i>	<i>Soil</i> Solid	<i>1-402</i>				<i>X</i>	<i>X</i>	<i>X</i>							<i>X</i>					<i>Y</i>	<i>Y</i>																											
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Relinquished by: (Signature) <i>F. Aragon</i>				Date <i>11-3-11</i>	Time <i>16:05</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>11/3/11</i>				Time <i>16:05</i>																																					
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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

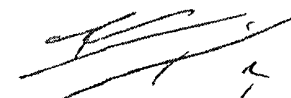
Client:	Devon Energy	Project #:	01058-0154
Sample ID:	Pit Comp @ 9'6" BGS	Date Reported:	12-07-11
Laboratory Number:	60497	Date Sampled:	12-01-11
Chain of Custody No:	13002	Date Received:	12-01-11
Sample Matrix:	Soil	Date Extracted:	12-01-11
Preservative:	Cool	Date Analyzed:	12-02-11
Condition:	Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	25.4	0.1
Total Petroleum Hydrocarbons	25.4	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Pit Closure/ NEBU 423 A**



Analyst

Review

COC 13002

COC 12890

PAGE NO: <u>1</u> OF <u> </u>	 envirotech (505) 632-0615 (800) 362-1879 5706 U.S. Hwy 64, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <u>F. Aray</u>
DATE STARTED: <u>11-2-11</u>		LAT: <u>36.824294/22</u>
DATE FINISHED: <u> </u>		LONG: <u>-107.5885332</u>

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: NEBU WELL #: 923A TEMP PIT: X PERMANENT PIT: BGT
 LEGAL ADD: UNIT: T SEC: 8 TWP: 30 N RNG: 7 W PM:
 QTR/FOOTAGE: 1610' FSL 905' FEL CNTY: Ro. Ariz. Co. ST: NM

EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE:
 DISPOSAL FACILITY: REMEDIATION METHOD:

LAND OWNER: Lease FGD. LSE#SF-079042 API: 30-039-30510 BGT / PIT VOLUME:

CONSTRUCTION MATERIAL: Earth DOUBLE-WALLED, WITH LEAK DETECTION: NA

LOCATION APPROXIMATELY: 65' FT. 250' FROM WELLHEAD

DEPTH TO GROUNDWATER: >100 ft

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE \leq 0.2 mg/kg, BTEX \leq 50 mg/kg, GRO & DRO FRACTION (8015) \leq 500 mg/kg, TPH (418.1) \leq 2500 mg/kg, CHLORIDES \leq 500 mg/kg

X TEMPORARY PIT - GROUNDWATER \geq 100 FEET DEEP

BENZENE \leq 0.2 mg/kg, BTEX \leq 50 mg/kg, GRO & DRO FRACTION (8015) \leq 500 mg/kg, TPH (418.1) \leq 2500 mg/kg, CHLORIDES \leq 1000 mg/kg

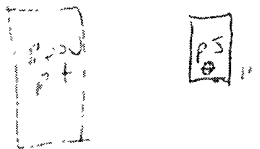
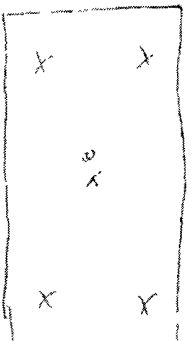
PERMANENT PIT OR BGT

BENZENE \leq 0.2 mg/kg, BTEX \leq 50 mg/kg, TPH (418.1) \leq 100 mg/kg, CHLORIDES \leq 250 mg/kg

FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
	STD		-	-	-		
17.00	Pit Comp	1					ALS
		2					
		3					
		4					
		5					
		6					

PERIMETER**FIELD CHLORIDES RESULTS****PROFILE**

	SAMPLE ID	READING	CALC. (mg/kg)	

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
1	BENZENE	
1	BTEX	
1	GRO & DRO	
1	CHLORIDES	

NOTES:

collected 11 one 5pt lower sample at 29.5' BGLS
 no field analysis
 turned in to lab for 8015, 8021, 3 chlorides

Ranking: WORKORDER # WHO ORDERED