

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

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

NMOCD
NOV 19 2018
DISTRICT III

Instructions: Please submit one application (Form C-144) per individual pit, 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: Reliable Production, LLC OGRID #: 371618
Address: 407 Ouray Ave, Farmington, NM 87401
Facility or well name: Sangre De Cristo #001
API Number: 30-045-09055 OCD Permit Number: _____
U/L or Qtr/Qtr NWNW (D) Section 34 Township 30N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.773304 Longitude -107.9865189 NAD83
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☒ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☒ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☐ **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 _____

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
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 _____

6.

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)

7.

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 19.15.16.8 NMAC

8.

Variances 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:

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

9.

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. Siting criteria does not apply to drying pads or above-grade tanks.

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

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

☐ Yes ☐ No
☐ NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

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

☐ Yes ☐ No
☐ NA

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. **(Does not apply to below grade tanks)**

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

☐ Yes ☐ No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

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

☐ Yes ☐ No

Within an unstable area. **(Does not apply to below grade tanks)**

- 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. **(Does not apply to below grade tanks)**

- FEMA map

☐ Yes ☐ No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

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

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

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

☐ Yes ☐ No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

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

☐ Yes ☐ No

Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

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

☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
<u>Temporary Pit Non-low chloride drilling fluid</u>	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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 spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>	
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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ 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: _____

11.

Multi-Well Fluid Management Pit 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.

☐ 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
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ 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
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
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

13.
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 ☐ Multi-well Fluid Management Pit
☐ 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

14.
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 C 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 H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
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 require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 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 25-50 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 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 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, 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
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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	☐ Yes ☐ No

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 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

16.

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 E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

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): Diane Montano Title: Agent for Reliable Production, LLC

Signature: Diane Montano Date: 8-28-18

e-mail address: dianemontano2@yahoo.com Telephone: (720) 695-6000

18.

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

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

19.

Closure Report (required within 60 days of closure completion): 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: _____

20.

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.

21.

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 for private land only)
- ☐ 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 _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

22.

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): Diane Montano Title: Agent for Reliable Production LLC

Signature: Diane Montano Date: 11-13-18

e-mail address: dianemontano2@yahoo.com Telephone: (720) 695-6000

A previous operator placed the pit in the current location. Reliable Production, LLC purchased this well in 6/2016. This temporary pit will not meet most of the NMOCD criteria.

As soon as the pit permit is approved, the temporary pit will be closed as soon possible.

Analytical Report

Report Summary

Client: Reliable Production
Chain Of Custody Number:
Samples Received: 11/8/2018 9:14:00AM
Job Number: 08135-C-0001
Work Order: P811025
Project Name/Location: Sangre de Cristo #1

NMOCB
NOV 19 2018
DISTRICT III

Report Reviewed By:



Date: 11/12/18

Walter Hinchman, Laboratory Director



Date: 11/12/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



envirotech

Analytical Laboratory

Reliable Production
407 Ouray Ave
Farmington NM, 87401

Project Name: Sangre de Cristo #1
Project Number: 08135-C-0001
Project Manager: Adrian Lozano

Reported:
11/12/18 16:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sangre de Cristo #1	P811025-01A	Soil	11/08/18	11/08/18	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fr (800) 362-1879





envirotech

Analytical Laboratory

Reliable Production
407 Ouray Ave
Farmington NM, 87401

Project Name: Sangre de Cristo #1
Project Number: 08135-C-0001
Project Manager: Adrian Lozano

Reported:
11/12/18 16:23

Sangre de Cristo #1 P811025-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845022	11/08/18	11/08/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845023	11/08/18	11/08/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845023	11/08/18	11/08/18	EPA 8015D	
Surrogate: n-Nonane		81.4 %		50-200	1845023	11-08-18	11-08-18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		106 %		70-130	1845022	11-08-18	11-08-18	EPA 8015D	
Surrogate: Toluene-d8-MS		95.2 %		70-130	1845022	11-08-18	11-08-18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		85.2 %		70-130	1845022	11-08-18	11-08-18	EPA 8015D	

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5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fr (800) 362-1879



Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

Reported:
 11/12/18 16:23

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1845022 - Purge and Trap EPA 5030A
Blank (1845022-BLK1)

Prepared: 11/07/18 1 Analyzed: 11/07/18 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4-MS	0.517		"	0.500		103	70-130			
Surrogate: Toluene-d8-MS	0.461		"	0.500		92.2	70-130			
Surrogate: Bromofluorobenzene-MS	0.424		"	0.500		84.8	70-130			

LCS (1845022-BS2)

Prepared: 11/07/18 1 Analyzed: 11/07/18 2

Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4-MS	0.637		"	0.500		127	70-130			
Surrogate: Toluene-d8-MS	0.430		"	0.500		86.0	70-130			
Surrogate: Bromofluorobenzene-MS	0.458		"	0.500		91.5	70-130			

Matrix Spike (1845022-MS2)

Source: P811020-01

Prepared: 11/07/18 1 Analyzed: 11/08/18 0

Gasoline Range Organics (C6-C10)	58.1	20.0	mg/kg	50.0	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4-MS	0.682		"	0.500		136	70-130			Surr1
Surrogate: Toluene-d8-MS	0.437		"	0.500		87.4	70-130			
Surrogate: Bromofluorobenzene-MS	0.462		"	0.500		92.4	70-130			

Matrix Spike Dup (1845022-MSD2)

Source: P811020-01

Prepared: 11/07/18 1 Analyzed: 11/08/18 0

Gasoline Range Organics (C6-C10)	52.9	20.0	mg/kg	50.0	ND	106	70-130	9.50	20	
Surrogate: 1,2-Dichloroethane-d4-MS	0.633		"	0.500		127	70-130			
Surrogate: Toluene-d8-MS	0.430		"	0.500		86.0	70-130			
Surrogate: Bromofluorobenzene-MS	0.455		"	0.500		90.9	70-130			

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Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

 Reported:
 11/12/18 16:23

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1845023 - DRO Extraction EPA 3570
Blank (1845023-BLK1)

Prepared: 11/07/18 1 Analyzed: 11/08/18 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	42.8		"	50.0		85.6	50-200			

LCS (1845023-BS1)

Prepared: 11/07/18 1 Analyzed: 11/08/18 1

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.1	38-132			
Surrogate: n-Nonane	43.1		"	50.0		86.2	50-200			

Matrix Spike (1845023-MS1)

Source: P811020-01

Prepared: 11/07/18 1 Analyzed: 11/08/18 1

Diesel Range Organics (C10-C28)	460	25.0	mg/kg	500	ND	92.0	38-132			
Surrogate: n-Nonane	36.7		"	50.0		73.4	50-200			

Matrix Spike Dup (1845023-MSD1)

Source: P811020-01

Prepared: 11/07/18 1 Analyzed: 11/08/18 0

Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.7	38-132	0.761	20	
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			

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Reliable Production
407 Ouray Ave
Farmington NM, 87401

Project Name: Sangre de Cristo #1
Project Number: 08135-C-0001
Project Manager: Adrian Lozano

Reported:
11/12/18 16:23

Notes and Definitions

Surr1 Surrogate recovery was outside quality control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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laboratory

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Analytical Report

Report Summary

Client: Reliable Production
Chain Of Custody Number:
Samples Received: 10/3/2018 9:07:00AM
Job Number: 08135-C-0001
Work Order: P810005
Project Name/Location: Sangre de Cristo #1

Report Reviewed By:



Date: 10/10/18

Walter Hinchman, Laboratory Director



Date: 10/10/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Reliable Production
407 Ouray Ave
Farmington NM, 87401

Project Name: Sangre de Cristo #1
Project Number: 08135-C-0001
Project Manager: Adrian Lozano

Reported:
10/10/18 15:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sangre de Cristo #1	P810005-01A	Soil	10/03/18	10/03/18	Glass Jar, 4 oz.

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Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

Reported:
 10/10/18 15:04

Sangre de Cristo #1
P810005-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1840021	10/03/18	10/04/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>102 %</i>		<i>50-150</i>	<i>1840021</i>	<i>10/03/18</i>	<i>10/04/18</i>	<i>EPA 8021B</i>	

Anions by 300.0/9056A

Chloride	3450	20.0	mg/kg	1	1840027	10/05/18	10/05/18	EPA 300.0/9056A	
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Total Petroleum Hydrocarbons by 418.1

Total Petroleum Hydrocarbons	188	40.0	mg/kg	1	1841001	10/08/18	10/08/18	EPA 418.1	
------------------------------	------------	------	-------	---	---------	----------	----------	-----------	--

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Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

 Reported:
 10/10/18 15:04

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1840021 - Purge and Trap EPA 5030A
Blank (1840021-BLK1)

Prepared: 10/03/18 | Analyzed: 10/04/18 |

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8030		"	8000		100	50-150			

LCS (1840021-BS1)

Prepared: 10/03/18 | Analyzed: 10/04/18 |

Benzene	5460	100	ug/kg	5000		109	70-130			
Toluene	5480	100	"	5000		110	70-130			
Ethylbenzene	5500	100	"	5000		110	70-130			
p,m-Xylene	11200	200	"	10000		112	70-130			
o-Xylene	5430	100	"	5000		109	70-130			
Total Xylenes	16700	100	"	15000		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8040		"	8000		100	50-150			

Matrix Spike (1840021-MS1)

Source: P810004-01

Prepared: 10/03/18 | Analyzed: 10/04/18 |

Benzene	4870	100	ug/kg	5000	ND	97.4	54.3-133			
Toluene	4860	100	"	5000	ND	97.2	61.4-130			
Ethylbenzene	4870	100	"	5000	ND	97.5	61.4-133			
p,m-Xylene	9980	200	"	10000	ND	99.8	63.3-131			
o-Xylene	4810	100	"	5000	ND	96.3	63.3-131			
Total Xylenes	14800	100	"	15000	ND	98.6	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8060		"	8000		101	50-150			

Matrix Spike Dup (1840021-MSD1)

Source: P810004-01

Prepared: 10/03/18 | Analyzed: 10/04/18 |

Benzene	4820	100	ug/kg	5000	ND	96.5	54.3-133	0.937	20	
Toluene	4830	100	"	5000	ND	96.5	61.4-130	0.716	20	
Ethylbenzene	4840	100	"	5000	ND	96.8	61.4-133	0.663	20	
p,m-Xylene	9920	200	"	10000	ND	99.2	63.3-131	0.624	20	
o-Xylene	4790	100	"	5000	ND	95.7	63.3-131	0.571	20	
Total Xylenes	14700	100	"	15000	ND	98.0	63.3-131	0.606	20	
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

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Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

Reported:
 10/10/18 15:04

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1840027 - Anion Extraction EPA 300.0/9056A
Blank (1840027-BLK1)

Prepared: 10/05/18 0 Analyzed: 10/05/18 1

Chloride	ND	20.0	mg/kg						
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LCS (1840027-BS1)

Prepared: 10/05/18 0 Analyzed: 10/05/18 1

Chloride	260	20.0	mg/kg	250		104	90-110		
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Matrix Spike (1840027-MS1)
Source: P810004-01

Prepared: 10/05/18 0 Analyzed: 10/05/18 1

Chloride	310	20.0	mg/kg	250	49.7	104	80-120		
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Matrix Spike Dup (1840027-MSD1)
Source: P810004-01

Prepared: 10/05/18 0 Analyzed: 10/05/18 1

Chloride	295	20.0	mg/kg	250	49.7	98.0	80-120	5.19	20
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Reliable Production
 407 Ouray Ave
 Farmington NM, 87401

 Project Name: Sangre de Cristo #1
 Project Number: 08135-C-0001
 Project Manager: Adrian Lozano

Reported:
 10/10/18 15:04

Total Petroleum Hydrocarbons by 418.1 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1841001 - 418 Freon Solid Extraction
Blank (1841001-BLK1)

Prepared: 10/08/18 0 Analyzed: 10/08/18 1

Total Petroleum Hydrocarbons ND 40.0 mg/kg

LCS (1841001-BS1)

Prepared: 10/08/18 0 Analyzed: 10/08/18 1

Total Petroleum Hydrocarbons 1040 40.0 mg/kg 1000 104 80-120

Matrix Spike (1841001-MS1)
Source: P810005-01

Prepared: 10/08/18 0 Analyzed: 10/08/18 1

Total Petroleum Hydrocarbons 1330 40.0 mg/kg 1000 188 114 70-130

Matrix Spike Dup (1841001-MSD1)
Source: P810005-01

Prepared: 10/08/18 0 Analyzed: 10/08/18 1

Total Petroleum Hydrocarbons 1120 40.0 mg/kg 1000 188 93.2 70-130 16.8 30

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Reliable Production
407 Ouray Ave
Farmington NM, 87401

Project Name: Sangre de Cristo #1
Project Number: 08135-C-0001
Project Manager: Adrian Lozano

Reported:
10/10/18 15:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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