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 1220 S St Francis Dr, Santa Fe, NM 87505

Type of action:

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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.

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|---------------|------|------|
| P | (l) | |

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

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method X 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 theoperator 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. |
| I. Operator: Energen Resources OGRID #: 162928 Address: 2010 Afton Place, Farmington, New Mexico 87401 |
| |
| Facility or well name: Carson 201 |
| API Number: 3003926878 OCD Permit Number: |
| U/L or Qtr/Qtr K Section 7 Township 30N Range 04W County: Rio Arriba . |
| Center of Proposed Design: Latitude 36.82328 Longitude -107.29944 NAD: ☐1927 ☐ 1983 |
| Surface Owner: Federal State 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 mil LLDPE HDPE PVC Other |
| String-Reinforced |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| 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 A Melow-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Produced Water Tank Construction material: |
| Secondary containment with leak detection 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. |

| 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 | | | |
|--|--------------------|--|--|
| 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) | | | |
| informing inspections (if neutring of selectining is not physically reasone) | | | |
| 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 | | | |
| 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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | office for | | |
| 10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system. | | | |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☐ NA | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☐ NA | | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No | | |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No | | |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No | | |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☐ No | | |
| Within a 100-year floodplain FEMA map | ☐ Yes ☐ No | | |

| 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 19.15.17.12 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 |
|--|
| |
| 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) |
| above ground steet tanks or natit-off vins and propose to implement waste removal for closure) |
| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control 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 |
| 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) |
| Atternative 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 G of 19.15.17.13 NMAC |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required. | | | |
|---|---|--------------------|--|
| 1 | sposal Facility Permit Number: | | |
| Disposal Facility Name: Disposal Facility Permit Number: | | | |
| Will any of the proposed closed-loop system operations and associated activities occu ☐ 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 re Re-vegetation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection | quirements of Subsection H of 19.15.17.13 NMA(f 19.15.17.13 NMAC) | C | |
| 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 of | btained 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 o | btained 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 of | btained from nearby wells | ☐ Yes ☐ No ☐ NA | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signif lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | icant watercourse or lakebed, sinkhole, or playa | ☐ Yes ☐ No | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site; Aerial photo; Satellite in | | ☐ Yes ☐ No | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less the watering purposes, or within 1000 horizontal feet of any other fresh water well or spring. NM Office of the State Engineer - iWATERS database; Visual inspection (certain content of the state of the State Engineer). | ng, in existence at the time of initial application. | ☐ Yes ☐ No | |
| Within incorporated municipal boundaries or within a defined municipal fresh water v adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval | <u>.</u> | ☐ Yes ☐ No | |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual in | nspection (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 ar | d Mineral Division | ☐ Yes ☐ No | |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Society; Topographic map | Mineral Resources; USGS; NM Geological | ☐ Yes ☐ No | |
| Within a 100-year floodplain FEMA map | · | ☐ Yes ☐ No | |
| 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 19.15.17.13 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | | | |

| 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) (IX) Closure Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature; Approval Date: 12/19/2011 |
| Title: Compliance Office OCD Permit Number: |
| 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: 11/05/08 |
| Closure Method: X Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify 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: NO WASTE DISPOSAL NECESSARY Disposal Facility Permit Number: 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) 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) X 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 |
| 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): Ed Hasely Title: Sr. Environmental Engineer |
| Signature: |
| e-mail address: ed hacely@anergen.com Telephone: (505) 324-4131 |

BELOW-GRADE TANK CLOSURE REPORT

ENERGEN RESOURCES

Carson #201

CLOSURE STEPS:

- (1) Notified the surface owner (Forest Service) that the below-grade tank was closed. ---- Email Attached
- (2) Notified the Aztec OCD office (Brandon Powell) that the below-grade tank was closed. ---- Email Attached
- (3) The tank contained no liquids at the time of the work.
- (4) Removed the below-grade tank. The tank was replaced with a new tank in an above-ground setup.
- (5) Tested the soils beneath the below-grade tank to determine whether a release has occurred.
 - Collected composite sample;

Analyzed for BTEX, TPH and chlorides: ---- Analyses Attached

- Benzene concentration 0.0018 ppm
- Total BTEX concentration 0.0263 ppm
- TPH concentration (418.1) 20.5 ppm
- Chloride concentration 60 ppm
- (6) The soil analyses showed that the soils were **below** the concentrations specified in 19.15.17 NMAC as an indication of a release.
- (7) Backfilled the excavation with compacted, non-waste containing, earthen material in a manner that will prevent ponding or erosion.
- (8) The area is needed for operations as a tank was set above ground in the same location. Seeding and final reclamation will take place upon P&A.

FINAL CLOSURE REPORT:

Submitted a closure report on form C-144, with necessary attachments to document all closure activities including sampling results, within 60 days of closure completion.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

| ~ !! | _ | | ***** |
|----------------------|-----------|---------------------|------------|
| Client: | Energen | Project #: | 03022-0002 |
| Sample ID: | BGT Comp. | Date Reported: | 11-13-08 |
| Laboratory Number: | 48094 | Date Sampled: | 11-05-08 |
| Chain of Custody No: | 5721 | Date Received: | 11-07-08 |
| Sample Matrix: | Soil | Date Extracted: | 11-11-08 |
| Preservative: | Cool | Date Analyzed: | 11-12-08 |
| Condition: | Intact | Analysis Requested: | 8015 TPH |

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

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Carson #201

Analyst

5796 US Highway 64, Farmington, NM 87401

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: | Energen | Project #: | 03022-0002 |
|--------------------|-----------|---------------------|------------|
| Sample ID: | BGT Comp. | Date Reported: | 11-13-08 |
| Laboratory Number: | 48094 | Date Sampled: | 11-05-08 |
| Chain of Custody: | 5721 | Date Received: | 11-07-08 |
| Sample Matrix: | Soil | Date Analyzed: | 11-12-08 |
| Preservative: | Cool | Date Extracted: | 11-11-08 |
| Condition: | Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) | |
|--------------|--------------------------|--------------------------|---|
| | | | |
| Benzene | 1.8 | 0.9 | • |
| Toluene | 10.6 | 1.0 | |
| Ethylbenzene | 1.9 | 1.0 | |
| p,m-Xylene | 8.4 | 1.2 | |
| o-Xylene | 3.6 | 0.9 | |
| Total BTEX | 26.3 | | |

ND - Parameter not detected at the stated detection limit.

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

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

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

USEPA, December 1996.

Comments:

Carson #201



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

| Client: | Energen | Project #: | 03022-0002 |
|----------------------|----------|------------------|------------|
| Sample ID: | BGT Comp | Date Reported: | 11-13-08 |
| Laboratory Number: | 48094 | Date Sampled: | 11-05-08 |
| Chain of Custody No: | 5721 | Date Received: | 11-07-08 |
| Sample Matrix: | Soil | Date Extracted: | 11-11-08 |
| Preservative: | Cool | Date Analyzed: | 11-11-08 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) | | | |
|------------------------------|--------------------------|--------------------------|--|--|--|
| | | sh. | | | |
| Total Petroleum Hydrocarbons | 20.5 | 5.0 | | | |

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Carson #201.



Chloride

Client: Energen Sample ID: BGT Comp. 48094 Lab ID#: Sample Matrix: Soil Preservative: Cool Condition: Intact

Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Chain of Custody:

11-05-08 11-07-08 11-13-08 5721

11-14-08

03022-0002

Parameter

Concentration (mg/Kg)

Total Chloride

60.0

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:

Carson #201.

CHAIN OF CUSTODY RECORD

| Client: Project Name / Location: Energen Carson # 201 | | | | | | | ANALYSIS / PARAMETERS | | | | | | | | | | | | | | | | |
|--|---------------------------------------|--------------|--------------|----------------|--------------------------------|------------------|-----------------------|--------------------|----------|----------|-------------------|--|--|-----|---------------|-------------|-------------|----------|--|---|------|--------------|---------------|
| | · · · · · · · · · · · · · · · · · · · | —— <u>-</u> | Carson | - 10 | <u> </u> | | | | <u> </u> | | | | т | т — | | | • | | | TI | | ₁ | |
| Client Address: | | S | ampler Name: | CZ S. | | | | | 2 | 121 | .6 | | | | ļ | ļ | | | | | 1 | | |
| | | | 14 lan | Kirk | | | | | 8 | 85 | 826 | <u>v</u> | _ | | | | | Į | | | | ļ | |
| Client Phone No.: Client No.: | | | | | | | ਭੂ | BTEX (Method 8021) | <u> </u> | eta | 'ē | | 三 | | F | ш | | | | log | tact | | |
| 03022-002 | | | | | | 2 | | | | | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | | TCLP with H/P | | TPH (418.1) | CHLORIDE | | | } | Sample Cool | Sample Intact |
| Sample No./ | Sample | Sample | i ian No | | Sample No./Volume Preservative | | -TPH (Method 8015) | X | 0 | RA RA | ië | _ | مَ | _ |) H | 💆 | | | | d L | ğ. | | |
| Identification | Date | Time | | | √atrix | of Containers | носу но | 2 | 타 | BT | 8 | 8 | S | RC. | 일 | PAH | ᆸ | 동 | | | | Sal | Sal |
| BGT Comp. | 11/5 | | 48094 | Soil) Solid | Sludge Aqueous | 1 | | | 1 | 1 | | | | | | | 1 | 1 | | | | \sim | < |
| | | | | Soil Solid | Sludge | | | | | | | | | | | | | | | | | | |
| | | | | Soil | Aqueous | | ╁╌┼╴ | - | | - | ├ | - | | } | ├ | - | | - | - | - | | | |
| | | | | Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| | | A | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| | \ \ \ | | | Soil | Sludge | | | | | | | | | | | | | | | | | | |
| 120 | 1344 | 4 | | Solid | Aqueous | | | + | | 1 | ├ ─ | 1 | | | | | | | | | | | - |
| Rasult | 1/05 | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| Rosults | 12 | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| | | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | | | | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | i | | l _ | | | | | | | | |
| | - | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signa | ityre) | | <u> </u> | 1 | Date | Time | Red | cęive | d by: | (Sign | ature) |) | | | | | | · | | Da | ite | Tir | пе |
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5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615

Ed Hasely

From: Ed Hasely

Sent: Tuesday, November 25, 2008 2:53 PM

To: 'Powell, Brandon, EMNRD'; 'mcatron@fs.fed.us'

Subject: Carson #201 Below Grade Tank Closure

This is an after-the fact notification that the below grade tank on the Carson #201 well location has been closed. The tank was removed, a soil sample was collected, the depression was backfilled, and a new tank was set above ground. I will be submitting a closure report to the OCD, which will include the lab analysis. The proper procedure for closing a below grade tank per the Pit Rule has been discussed so that timely notifications can be made in the future.

Carson #201 - Unit Letter K, Section 7 - T30N - R4W

Please let me know if you have questions or concerns. Thanks.

Ed Hasely

Energen Resources Corporation

Sr. Environmental Engineer ed.hasely@energen.com
Office: (505) 324-4131
Cell: (505) 330-3584





OIL CONS. DIV.

December 13, 2011

DIST. 3

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410 Attn: Jonathan Kelly

Re:

Carson #201

Below Grade Tank Closure

Dear Mr. Kelly:

Enclosed is the final C-141 Form and photo for the Below-Grade Tank closure on the subject well location. This should complete the information needed for C-144 BGT Closure Report submitted earlier.

If there are any questions or concerns with this submittal, please contact me at 505-324-4131.

Sincerely,

Ed Hasely

Sr. Environmental Engineer

Energen Resources

Attachments: Final C-141

Photo

Cc:

HSE File Facility File Correspondence <u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

| | | | Relea | se Notificat | tion and Corre | ctive Actio | n | | | | | | | | |
|--|--|--|--|--|--------------------------|---|---|--|--|--|--|--|--|--|--|
| | | | | | OPERATO | R | ☐ Initial Report ☒ Final Report | | | | | | | | |
| Name of Co | | | | | | Ed Hasely | | - | | | | | | | |
| Address: 20 | | | gton, NM | 87401 | | Telephone No: 505-324-4131 | | | | | | | | | |
| Facility Nan | ne: Carson | #201 | | | Facility Type: C | Facility Type: Oil/Gas Well Site | | | | | | | | | |
| Surface Ow | ner: Federa | l | | Mineral Ow | ner: Federal | | Lease No. | | | | | | | | |
| | | | | LOCAT | ION OF RELEA | SE | | | | | | | | | |
| Unit Letter K | Section 7 | Township 30N | Range 4W | Feet from the | North/South Line | e County Rio Arriba | | | | | | | | | |
| | | | | Latitude_ | Longitud | e | | | | | | | | | |
| | | | _ | NATU: | RE OF RELEAS | E | | | | | | | | | |
| Type of Relea | ise: NO REL | EASE | | | Volume of Rele | ase: | Volume Reco | overed: | | | | | | | |
| Source of Rel | ease: | | | | Date and Hour | of Occurrence: | Date and Ho | ur of Discovery: | | | | | | | |
| Was Immedia | ite Notice G | | Yes 🔲 1 | No 🗌 Not Requ | | If YES, To Whom? | | | | | | | | | |
| By Whom? | | | | | | Date and Hour: | | | | | | | | | |
| Was a Water | course Reac | | Yes 🔲 1 | No | If YES, Volume | If YES, Volume Impacting the Watercourse. | | | | | | | | | |
| If a Watercou | ırse was Im | pacted, Descr | ibe Fully. | * | - Inner | | | | | | | | | | |
| | | | | | | | RCVI | DEC 14'11 | | | | | | | |
| | | | | | | | OIL | CONS. DIV. | | | | | | | |
| Describe Cau | so of Droble | m and Dama | dial Actio | n Takan * | | | | DIST. 3 | | | | | | | |
| | | | | | | | | | | | | | | | |
| THERE WAS | | | IEDIAL A | CTION TAKEN. | THIS FORM IS FILLE | D OUT TO SERV | E AS A COVER | R FOR LAB ANALYSES - | | | | | | | |
| Describe Are | a Affected a | nd Cleanup A | Action Ta | ken.* | | | | | | | | | | | |
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| regulations all public health should their o | operators are the environment have ment. In additional ment. | e required to not not to the action of the a | report and/ ceeptance equately in D accepta | or file certain released of a C-141 report lavestigate and rem | ediate contamination the | rform corrective ac as "Final Report" at pose a threat to operator of respon | ctions for release does not relieve ground water, su sibility for comp | s which may endanger the operator of liability rface water, human health bliance with any other | | | | | | | |
| Signature: | 101/2 | reh | | | | OIL CONSER | VATION DI | VISION | | | | | | | |
| Printed Name | : Ed Hasel | у | | | Approved by Distr | ict Supervisor: | | | | | | | | | |
| Title: | Sr. Envir | onmental Eng | ineer | | Approval Date: | | Expiration Date: | | | | | | | | |
| E-mail Addre | ss: <u>ed hasely</u> | <u>@energen.con</u> | <u>n</u> | | Conditions of App | roval: | Attached | | | | | | | | |

Date: 12/13/11

Phone: 505-324-4131 / 505-330-3584(ccll)

^{*} Attach Additional Sheets If Necessary

(arson #201

