<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office:

Pit, Closed-Loop System, Below-Grade Tank, or

Proposed Alternative Method Permit or Closure Plan Application
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 invironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Fuller Production, Inc. OGRID#: 151182
Address:PO. Box 11327 Midland, Tx 79702
Facility or well name: _McCarty #1
API Number:30-045-10686OCD_Permit Number:
U/L or Qtr/Qtr N Section 14 Township 31N Range 13W County: SAN JUAN
Center of Proposed Design: Latitude36° 53' 41.28225" N Longitude,108° 10' 36.72549" W 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:
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thicknessmil. LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
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
A RECEIVED W
Mac Below-grade tank: Subsection 1 of 19.15.17.11 NMAC
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC Volume:150
Tank Construction material: Fiberglass
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only. ☒ OtherPartially visible buried fiber glass tank

Form C-144

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	r hospital,
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet.	
✓ Alternate: Please specify 3' Field Fencing with one strand of barbed wire	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other Wire Mesh covering tank top	
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.	Cornee tor
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a	opriate district approval
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	ring pads or
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	X Y.es. 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
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☐ No ☐ NA
- 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 search; Visual inspection (certification) of the proposed site	L Pes, 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
	i

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if 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 so Yes (If yes, please provide the information below) No	ervice and operations?
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 NM. 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.	AC
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 so provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate di considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justine demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC forguidance.	strict office or may be
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
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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p 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 can 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 G of 19.15.17.13 NMAC	0.15.17.11 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): Powentan French Title: Vice President
Signature:
e-mail address: Telephone: <u>432-683-5661</u>
OCD Appròval: . Permit Application (including closure plan) . Closure Plan (only) . OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: Approval Date: Approval Date:
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:
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 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: 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 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): Title:
Signature: Date:
e-mail address: Telephone:

Fuller Production, Inc. San Juan Basin Below Grade Tank Design and Construction

In accordance with Rule 19.15.17 NMAC the following describes the as-built construction of the Below Grade Tank for the FULLER PRODUCTION, INC. below grade tank on the McCarty #1 well located in the SESW, "N" of Sec 14, T31N, 13W.

As-built Installation:

- 1. The existing tank pit consists of an approximate 12 ft by 5 ft earth walled hole into which a 10 ft by 10 ft by 5.5 ft deep, steel, single walled, 45 bbl tank with leak detection is placed.
- 2. The tank walls are closed.
- 3. There is an expanded metal covering on the top of the below grade tank.
- 4. A general location sign is displayed on site.
- 5. The pit tank is fenced with 3 ft field fencing and one strand of barbed wire.

NUMBER OF COPIES RECEIVED					
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NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128 Revised 5/1/57

V 4 518		WELL LOCATI	ON AND ACREA	GE DEDICAT	ION PLAT	
SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE						
PROBATION OFFICE		TEE INSTRUCTIONS FOR COMPERTING THIS FORM ON THE VELLENGE SIDE				
OPERATOR						
			SECTION A			, , , , , , , , , , , , , , , , , , , ,
Operator ADUBI	E OIL JUMFAR	Ϋ́	Lease McC	arty	Well No.	·
Unit Letter N	Section 14	Township 31 NORTH	Range 13 WEST	County SAN	JUAN.	
Actual Footage L 790	ocation of Well:	SOUTH line and	1600 f	eet from the WEST	line	
Ground Level Ele 5650	v. Producing F		Pool Wilden		Dedicated Acre	age: Acres
who has the ri another: (65- 2. If the answer wise? YES	ght to drill into an -3-29 (e) NMSA 19 to question one is NO	n the dedicated acreage of id-to produce from any poo	l and to appropriate the of all the owners been of Consolidation	w? YES 15 NO e production either consolidated by con	for himself or for himse	elf and
Owner			Land Descr			
		SECTION B			CERTIFICATION	211
				in sple bel	sition Vice President mpany Adobe Oil Compo	rue and com- nowledge and
160	0062-	114-		sho ploi sur sup and and	ereby certify that the vown on the plat in SEC tred from field notes o veys made by me or un pervision, and that the correct to the best of belief. The Surveyed 10 August 19 gistered Professional for Land Surveyer	TION B was f actual der my same is true my knowledge
330 660	990 1320 1660	1980 2310 2640 20	00 1500 1000	500 0 Cei	James P. Les tificate No.	88



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 14

Township: 31N

Range: 13W

Fuller Production, Inc. San Juan Basin Closure Plan

In accordance with Rule 19.15.17.1 NMAC the following procedure describes the closure plan for the FULLER PRODUCTION, INC. below grade tank on the McCarty #1 well located in the "N", SESW of Sec 14, T31N, 13W.

Closure Requirements:

- 1. FULLER PRODUCTION, INC. shall close the below grade tank within the time periods provided in 19.15.17.13 NMAC or by an earlier date that the division requires because of imminent danger to fresh water, public health, or the environment.
- 2. FULLER PRODUCTION, INC. shall close an existing below grade tank that does not meet the requirements of Paragraph (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008 if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. FULLER PRODUCTION, INC. shall close a permitted below grade tank within 60 days of cessation of the below ground tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144.
- 4. All liquids will be removed from the temporary permit prior to closure and the liquids disposed of in a division approved facility.
- 5. FULLER PRODUCTION, INC. shall remove the below grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- 6. FULLER PRODUCTION, INC. will remove any on-site equipment associated with the below grade tank unless the equipment is required for some other purpose.
- 7. FULLER PRODUCTION, INC. shall test the soils beneath the below grade tank to determine whether a release has occurred. FULLER PRODUCTION, INC. shall collect a five point composite sample and individual grab samples from any area that is wet, discolored, or showing other evidence of a release. The samples will be analyzed for BTEX, TPH, and chlorides to demonstrate that the benzene concentration as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not

exceed 50 mg/kg; the TPH concentration as determined by EPA method 418.1 or other EPA method that the division approves does not exceed 100 mg/kg; and the chloride concentration as determined by EPA method 300.1 or other EPA method that the division approves does not exceed 250 mg/kg or the background concentration, whichever is greater. FULLER PRODUCTION, INC. shall notify the division of its results on form C-141.

- 8. If FULLER PRODUCTION, INC. or the division determines that a release has occurred, then Fuller FULLER PRODUCTION, INC. shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC as appropriate.
- 9. If contamination is confirmed by field sampling. FULLER PRODUCTION, INC. will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating identified contaminants.
- 10. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then FULLER PRODUCTION, INC. shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; re-contour, and revegetate the site.
- 11. Notice of closure will be given to the Aztec Division office between 72 hours and one week of closure via email or verbally. The notification of closure will include the following:
 - · Operator's name
 - · Location by Unit Letter, Section Township, and Range.
 - · Well name and API number
- 12. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the blow grade tank. The closure report will be filed on C-144 and incorporate the following:
 - · Details on capping and covering where applicable
 - · Inspection reports
 - · Sampling results
- 13. The site will be re-contoured to match the surrounding area. Natural drainages will be unimpeded and erosion control will be utilized where necessary.
- 14. FULLER PRODUCTION, INC. shall seed the disturbed areas the first growing season with a division approved seed mixture after pit closure. Seeding will be accomplished by drilling on the contour whenever possible or by other division approved methods. Repeat seeding or planting will be continued until successful vegetative growth occurs.

- 15. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the thickness of the topsoil native to the area, whichever is greater.
- 16. The surface owner shall be notified of FULLER PRODUCTION, INC.'s closing of the below grade tank as per the approved closure plan using certified mail with return receipt requested.

June 2, 2011

McCarty #1

Below Grade Pit Tank Closure

The fiberglass, below grade tank was removed on 6-2-2011. The hydrocarbon contaminated soil (exempt), was removed using a backhoe. The final dimensions of the excavation were 15x15x12. The contaminated soil was minimal and was contained within the berms surrounding the fiberglass tank. The excavation was backfilled with clean soil hauled in from a commercial pit. The hydrocarbon contaminated soil was hauled to a commercial landfarm (IEI). A C-138 was completed and submitted to IEI prior to the delivery of the contaminated soil. Samples were taken to Envirotech for analysis (see results). Requested tests include TPH 418.1, Chloride, TPH 8015 and BTEX 8021. A Chain Of Custody was completed and submitted with the soil samples.

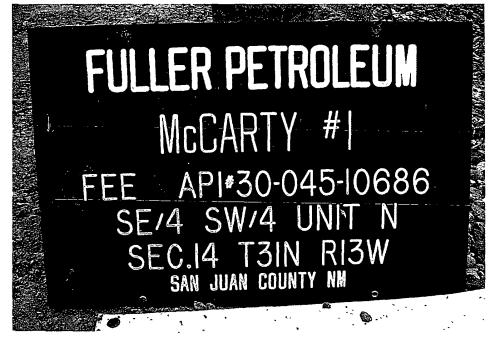
If you have questions or concerns, feel free to contact me at 505-320-4969.

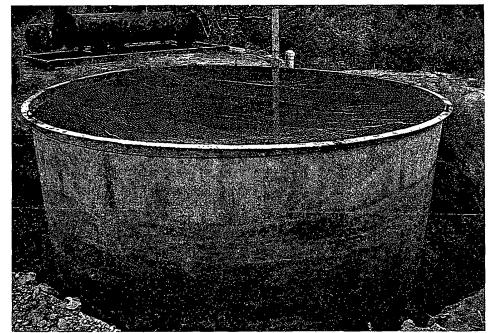
Thanks

Randy J. Elledge

Wapiti Energy Services, LLC







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

State of New Mexico Energy Minerals and Natural Resources

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

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138 Revised March 12, 2007

REQUEST FOR APPRO	VAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:	
Fuller Production	
2. Originating Site:	
McCarty #1	
3. Location of Material (Street Address, City, State or U	LSTR):
S14 T31N R13W NM	,
4. Source and Description of Waste:	
Hydro-carbon contaminated soil	
	·
Estimated Volume 28 yd³/bbls Known Volume	(to be entered by the operator at the end of the haul) yd³/bbls
	TION STATEMENT OF WASTE STATUS
hereby certify that according to the Resource Conservation and July 1988 regulatory determination, the above described waste	ck_, representative or authorized agent forFuller Production do d Recovery Act (RCRA) and the US Environmental Protection Agency's e is: (Check the appropriate classification)
	and gas exploration and production operations and are not mixed with non- nce Frequency Monthly Weekly Per Load
characteristics established in RCRA regulations, 40 CFR	azardous that does not exceed the minimum standards for waste hazardous by 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, attached to demonstrate the above-described waste is non-hazardous. (Check
☐ MSDS Information ☐ RCRA Hazardous Waste Analys	sis Process Knowledge
GENERATOR 19.15.36.15 WASTE TESTING	CERTIFICATION STATEMENT FOR LANDFARMS
I,, representative for	do hereby certify that
representative samples of the oil field waste have been subject have been found to conform to the specific requirements applied	ted to the paint filter test and tested for chloride content and that the samples icable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results above-described waste conform to the requirements of Section 15 of
5. Transporter:	•
JP TRUCKING	
OCD Permitted Surface Waste Management Facility	
Name and Facility Permit #: Industrial Eco-Systems	, ,
Address of Facility: #49 CR 3150 Aztec, NM 87410	
Method of Treatment and/or Disposal:	
☐ Evaporation ☐ Injection ☐ Treating	Plant 🛭 Landfarm 🔲 Landfill 🔲 Other
Waste Acceptance Status:	DENIED (Must Be Maintained As Permanent Record)
	TITLE: DATE:
	•
SIGNATURE: Surface Waste Management Facility Authorized Agent	· · · · · · · · · · · · · · · · · · ·



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

Client:	Fuller Production/c/o McElvain	Project #:	11106-0001
Sample ID:	Bottom of Excav	Date Reported:	06-03-11
Laboratory Number:	58366	Sampled:	06-01-11
Chain of Custody No:	11834	Date Received:	06-02-11
Sample Matrix:	Soil	Date Extracted:	06-02-11
Preservative:		Date Analyzed: `	06-02-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	4.7	

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:

McCarty #1

5796 US Highway 64, Farmington, NM 87401

Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Fuller Production/c/o McElvain	Project #:	11106-0001
Sample ID:	3 Ft Bottom	Date Reported:	06-03-11
Laboratory Number:	58367	Sampled:	06-01-11
Chain of Custody No:	11834	Date Received:	06-02 - 11
Sample Matrix:	Soil	Date Extracted:	06-02-11
Preservative:		Date Analyzed:	06-02-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	3.7	

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:

McCarty #1

5796 US Highway 64, Farmington, NM 87401



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

Quality Assurance Report

Client:	QA/QC	Project#:	N/A
Sample ID:	06-02-11 QA/QC	Date Reported:	06-02-11
Laboratory Number:	58351	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-02-11
Condition:	N/A	Analysis Requested:	TPH

	i-Cal Date	I-Cal RF	C-Cal RF: 49	Difference	Accept Range
Gasoline Range C5 - C10	06/02/11	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	06/02/11	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc∜(mg/L⊯ mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	26.7	0.2
Diesel Range C10 - C28	1.9	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	242	96.7%	75 - 125%
Diesel Range C10 - C28	ND	250	245	98.2%	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 58351-58354, 58358-58360, 58364-58367

5796 US Highway 64, Farmington, NM 87401

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

		k	
Client:	Fuller Production/c/o McElvain	Project #:	11106-0001
Sample ID:	Bottom of Excav	Date Reported:	06-03-11
Laboratory Number:	58366	Date Sampled:	06-01-11
Chain of Custody:	11834	Date Received:	06-02-11
Sample Matrix:	Soil	Date Analyzed:	06-02-11
Preservative:		Date Extracted:	06-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)

Benzene Toluene	ND ND ND	0.9 1.0 1.0
Ethylbenzene p,m-Xylene o-Xylene	58.9 11.2	1.2 0.9

Total BTEX 70.1

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.4 %
	1,4-difluorobenzene	92.7 %
	Bromochlorobenzene	103 %

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:

McCarty #1

Arrayes

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

1.2

0.9

Client:	Fuller Production/c/o McElvain	Project #:	11106-0001
Sample ID:	3 Ft Bottom	Date Reported:	06-03-11
Laboratory Number:	58367	Date Sampled:	06-01-11
Chain of Custody:	11834	Date Received:	06-02-11
Sample Matrix:	Soil	Date Analyzed:	06-02-11
Preservative:		Date Extracted:	06-02-11
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	

Total BTEX	1.6

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery						
	Fluorobenzene	89.9 %						
	1,4-difluorobenzene	96.8 %						
	Bromochlorobenzene	102 %						

References:

p,m-Xylene o-Xylene

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

ND

1.6

December 1996.

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

USEPA, December 1996.

Comments:

McCarty #1

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID:	N/A 0602BBLK QA/Q0		Project#: Date Reported:		/A 3-02-11
Laboratory Number:	58353		Date Sampled:		/A
Sample Matrix:	Soil		Date Received:		/A
Preservative:	N/A		Date Analyzed:		3-02-11
Condition:	N/A		y nalveie,	R	TEX
• • • • • • • • • • • • • • • • • • • •			Ollution:	10	
Calibration and Detection Limits (ug/L)		C-Cal RF: Accept, Rang	%Diff. • 0 - 15%		Detect: Limit
Benzene	3.5034E+006	3.5105E+006	0.2%	ND	0.1
Toluene	3.6883E+006	3.6957E+006	0.2%	ND	0.1
Ethylbenzene	3.2344E+006	3.2409E+008	0.2%	. ND	0.1
p,m-Xylene	8.7142E+008	8.7316E+006	0.2%	ND	0.1
o-Xylene	2.9945E+008	3.0005€+008	0.2%	ND	0.1
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff:	:Accept Range	Oetect: Limit
Benzene	ND		0.0%	0 - 30%	0.9
Toluene	ND		0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	÷ 0.0%	0 - 30%	1.0
		מא			

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked Spil	ked Sample %	Recovery	'Accept Range
Benzene	ND	500	511	102%	39 - 150
Toluene	ND	500	513	103%	46 - 148
Ethylbenzene	ND	500	512	102%	32 - 160
p,m-Xylene	ND	1000	1,020	102%	46 - 148
o-Xylene	ND	500	512	102%	46 - 148

ND

0.0%

0 - 30%

0.9

ND - Parameter not detected at the stated detection limit.

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

References:

o-Xylene

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 58353-58354, 58364-58367

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Fuller Production/c/o McElvain Project #: 11106-0001 Sample ID: **Bottom of Excav** Date Reported: 06/02/11 Laboratory Number: 58366 Date Sampled: 06/01/11 11834 Date Received: 06/02/11 Chain of Custody No: Date Extracted: Sample Matrix: Soil 06/02/11 Date Analyzed: Preservative: 06/02/11 Condition: Intact Analysis Needed: TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

77.4

7.7

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:

McCarty #1

armington, NM 87401

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Fuller Production/c/o McElvain	Project #:	11106-0001
Sample ID:	3 Ft Bottom	Date Reported:	06/02/11
Laboratory Number:	58367	Date Sampled:	06/01/11
Chain of Custody No:	11834	Date Received:	06/02/11
Sample Matrix:	Soil	Date Extracted:	06/02/11
Preservative:		Date Analyzed:	06/02/11
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

116

7.7

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:

McCarty #1

5796 US Highway 64, Farmington, NM 87401

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported: Date Sampled:

06/02/11

Laboratory Number: Sample Matrix:

Freon-113

06-02-TPH.QA/QC 58364

Date Analyzed:

N/A 06/02/11

Preservative:

N/A

Condition:

N/A

Date Extracted: Analysis Needed: 06/02/11 TPH

Calibration

I-Cal Date C-Cal Date II-Cal RF: C-Cal RF: % Difference Accept Range

05/09/11

06/02/11

1,610 1,670 3.7%

+/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

TPH

ND

7.7

Duplicate Conc. (mg/Kg) TPH

Sample 28.4 Duplicate 29.7

% Difference Accept, Range 4.6%

+/- 30%

Spike Conc. (mg/Kg

Sample

Spike Added Spike Result % Recovery Accept Range

TPH

28.4

2,000

1.870

92.2%

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 58364-58367

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

Review



Chloride

Client:

Fuller Production/c/o McElvain Project #:

11106-0001

Sample ID:

Bottom of Excav

Date Reported: 06/03/11

58366

Date Sampled:

Lab ID#:

Date Received:

06/01/11

Sample Matrix:

Soil

06/02/11

Preservative:

Date Analyzed:

06/03/11

Condition:

Intact

Chain of Custody:

11834

Parameter

Concentration (mg/Kg)

Total Chloride

20

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:

McCarty #1

5796 US Highway 64, Farmington, NM 87401

Review



Chloride

Client:

Fuller Production/c/o McElvain Project #:

11106-0001

Sample ID:

3 Ft Bottom

Date Reported:

06/03/11

Lab ID#:

58367

Date Sampled:

06/01/11

Sample Matrix:

Date Received:

06/02/11

Preservative:

Date Analyzed:

06/03/11

Condition:

Intact

Soil

Chain of Custody:

11834

Parameter

Concentration (mg/Kg)

Total Chloride

260

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:

McCarty #1

5796 US Highway 64, Farmington, NM 87401

CHAIN OF CUSTODY RECORD

11834

Client: C/O Project Name / Location:						T	ANALYSIS / PARAMETERS																
tuller Production	-/ "	tivuu	M. Corty	# /						4					, —	<u>,</u>	<u></u>	*					
Client Address: PO Box 1/327	√ 797	02	Sampler Name:	JE1	ledre	_			8015)	18021	8260)	S											
Client Phone No.: Project Name / Location: Project Name / Location: Project Name / Location: Project Name / Location: MCGrty # / Sampler Name: Sampler Name: Client Phone No.: Client No.: 11106-0001						TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anlon		TCLP with H/P		118.1)	RIDE				Cool	Intact			
Sample No./ Identification	Sample Date	Sample Time		5	Sample Matrix	No./Volume of Containers	Pres HgCl ₂		TPH (A	BTEX	VOC (A	RCRA	Cation	P.C.	TCLP	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottomof Exca 3ft Bottom	4/1/1	6:05	58366	Soil Solid	Sludge Aqueous				X	X							X	X					Y
3ft Bottom	4/1/11	4:40	58367	Solid	Sludge Aqueous				X	X							X.	K				_	χ
	,	,		Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
		L		Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous									i .									
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				Soil Solid	Sludge Aqueous																		
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