

NM2 - _____ 12 _____

**GENERAL
CORRESPONDENCE
YEAR(S):**

_____ 2011 - 2012 _____

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Wednesday, July 13, 2011 8:12 AM
To: 'Mark Larson'; Bailey, Jami, EMNRD
Cc: Bailey, Rodney G
Subject: RE: Surface Waste Managemnt Facility, Section 3, Township 24 South, Range 36 East, Lea County, New Mexico

Mark,

Thank you for notifying OCD of the legal address error. The information used in the letter to identify the location of the facility was generated from OCD's database. It seems that the same legal address was entered for both facilities when they were permitted. OCD will correct this entry. Thank you again for identifying this input error.

Brad

Brad A. Jones
Environmental Engineer
Environmental Bureau
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: Mark Larson [<mailto:Mark@laenvironmental.com>]
Sent: Monday, July 11, 2011 12:15 PM
To: Jones, Brad A., EMNRD; Bailey, Jami, EMNRD
Cc: Bailey, Rodney G
Subject: Re: Surface Waste Managemnt Facility, Section 3, Township 24 South, Range 36 East, Lea County, New Mexico

Dear Mr. Jones,

Please find attached letter in response to letter dated June 30, 2011. The original will be mailed today. Please contact Mr. Rodney Bailey with Chevron North America Exploration & Production Company at (432) 687-7123 or myself at (432) 687-0901, if you have questions.

Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld Street, Ste. 200
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com



Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Monday, July 11, 2011 12:15 PM
To: Jones, Brad A., EMNRD; Bailey, Jami, EMNRD
Cc: Bailey, Rodney G
Subject: Re: Surface Waste Managemnt Facility, Section 3, Township 24 South, Range 36 East, Lea County, New Mexico
Attachments: Response Letter, July 11, 2011.pdf

Dear Mr. Jones,

Please find attached letter in response to letter dated June 30, 2011. The original will be mailed today. Please contact Mr. Rodney Bailey with Chevron North America Exploration & Production Company at (432) 687-7123 or myself at (432) 687-0901, if you have questions.

Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld Street, Ste. 200
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com





July 11, 2011

VIA EMAIL: brad.a.jones@state.nm.us

Mr. Brad Jones
Environmental Engineer
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Centralized Surface Waste Management Facility Permit NM-2-0013, Chevron North America Exploration & Production Company, Section 3, Township 24, South, Range 36 East, Lea County, New Mexico

Dear Mr. Jones:

Larson & Associates, Inc. (LAI), on behalf of Chevron North America Exploration & Production Company (Chevron), submits this letter to the New Mexico Oil Conservation Division (OCD). The letter is in response to a letter from the OCD dated June 30, 2011, providing compliance requirements for the surface waste management facility located in Section 3, Township 24 South, Range 36 East, in Lea County, New Mexico. The OCD letter references permit NM-2-0012 which is the permit number for the surface waste management facility located in Section 17, Township 24 South, Range 36 East, in Lea County, New Mexico. On January 24, 2011, LAI, on behalf of Chevron, submitted the 2010 monitoring results and a closure request for NM-2-0012 (*"Surface Waste Management Report and Closure Request, Chevron Landfarm NM-2-0012"*). Surface waste management facility NM-2-0013 was closed on May 16, 2007, per approval from the OCD (see attached letter). LAI, on behalf of Chevron, hereby requests approval from the OCD to close surface waste management facility NM-2-0012. Please call Mr. Rodney Bailey with Chevron at 432.687.7123 or myself at 432.687.0901, or email bailerg@chevron.com or mark@laenvironmental.com, if you have questions.

Respectfully submitted,
LARSON & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Mark J. Larson', is written over a horizontal line.

Mark J. Larson
Sr. Project Manager/President
mark@laenvironmental.com

Encl.

Cc: Jami Bailey – NMOCD
Rodney Bailey - Chevron



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

May 16, 2007

Mr. Rodney Bailey
Environmental Specialist
MidContinent SBU
Chevron North America Exploration and Production Company
15 Smith Road
Midland, Texas 79705

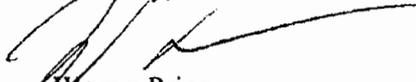
**RE: Closure Request for Chevron's Centralized Landfarm
Centralized Surface Waste Management Facility Permit NM-2-0013
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed Chevron's closure request, dated March 7, 2007, for the Chevron Centralized Landfarm Permit NM-2-0013 located in the NE/4 of Section 3, Township 24 South, Range 36 East, NMPM of Lea County, New Mexico. The February 21, 2007 inspection confirmed that Chevron's permitted landfarm never accepted any oilfield waste and that the construction of the landfarm was never initiated within the permitted area. The photographs provided in the request demonstrate that Chevron never commenced construction of the centralized landfarm. OCD hereby approves Chevron's closure request the Chevron Centralized Landfarm Permit NM-2-0013.

If you have any questions, regarding this matter, please do not hesitate to contact Brad A. Jones at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Wayne Price
Environmental Bureau Chief

LWP/baj

cc: OCD District I Office, Hobbs
Mark Larsen, Larsen & Associates, Inc., Midland, Texas 79710



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



June 30, 2011

Mr. Rodney Bailey
Chevron North America Exploration and Production Company
15 Smith Road
Midland, Texas 79705

RE: Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms
Chevron North America Exploration and Production Company
Landfarm #3: Permit NM-2-012
Location: Section 3, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico

Dear Owner/Operator:

The Oil Conservation Division (OCD) has received several landfarm monitoring reports which indicate Owner/Operators are not conducting the required sampling and assessment of the monitoring data required by existing permit conditions and the applicable requirements of the Surface Waste Management Facilities rule 19.15.36 NMAC (Rule 36). OCD wishes to remind such Owner/Operators that the requirements of Rule 36 have been in effect since February 14, 2007 and compliance is required. This letter is provided to help Owner/Operators understand the most common deficiencies regarding compliance in general operations, sampling of landfarms at existing surface waste management facilities, and the reporting of such results.

I. Transitional Provisions, Existing Surface Waste Management Facilities:

The transitional provision of Rule 36.20.A states that existing surface waste management facilities *shall comply with the operational, waste acceptance, and closure requirements* provided in the new rule, unless specifically addressed in the current permit, order, waiver, exception, or agreement granted in writing from OCD. Where the language in the existing permit is silent (i.e., where a specified requirement of Rule 36 is not addressed within the existing permit or in writing from OCD), the operational, waste acceptance, and closure provisions of Rule 36 apply and



supplement the conditions of the existing permit. Examples of how this transitional provision would be applied to Owner/Operators of existing landfarms are as follows:

A. Treatment Zone Monitoring (contaminated soils being remediated):

Most Owner/Operators of existing landfarms have common language or conditions specified within their permits. For this example, two of the following common permit conditions demonstrate how an Owner/Operator would request the necessary modification of their existing permit.

In an existing landfarm permit:

1. Soils will be spread on the surface in six-inch lifts or less.
2. Successive lifts of contaminated soils may not be spread until a laboratory measurement of:
 - a. total petroleum hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm);
 - b. the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm; and
 - c. benzene is less than 10 ppm.
 - d. Comprehensive records of the laboratory analyses and the sampling locations must be maintained at the facility. Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of the remediated soils.

In addition to the above permit conditions, an Owner/Operator also has to implement the following additional requirements of Rule 36:

- Chloride testing and limits (See 19.15.36.15.D NMAC)

If ground water is between 50' and 100' below the bottom of the oil field waste:	If ground water is more than 100' below the bottom of the oil field waste:
Chloride concentration cannot exceed 500 mg/kg	Chloride concentration cannot exceed 1000 mg/kg

- The following test methods would have to be utilized: TPH concentration of each lift determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, and chloride concentration, determined by EPA method 300.1. (See 19.15.36.15.D NMAC)
- The sampling protocol and frequency: *“The operator shall collect and analyze at least one composite soil sample, consisting of four discrete samples, from the treatment zone at least semi-annually using the methods specified below for TPH and chlorides.”* (See 19.15.36.15.D NMAC)
- The maximum thickness of remediated soils for closure: *“The maximum thickness of treated soils in a landfarm cell shall not exceed two feet or approximately 3000 cubic yards per acre. When that thickness is reached, the operator shall not place additional oil field waste in the*

landfarm cell until it has demonstrated by monitoring the treatment zone at least semi-annually that the contaminated soil has been treated to the standards specified in Subsection F of 19.15.36.15 NMAC or the contaminated soils have been removed to a division-approved surface waste management facility.” (See 19.15.36.15.D NMAC)

Therefore, in order to remain in compliance with existing permit conditions and Rule 36 the Owner/Operator shall ensure that:

1. Soils will be spread on the surface in **six-inch** lifts or less, and the addition of any remediated soils is not allowed until:
 - a. TPH concentration of each lift, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed **100 mg/kg (ppm)**,
 - b. the sum of all aromatic hydrocarbons (BTEX) is less than **50 ppm**,
 - c. benzene is less than **10 ppm**, and
 - d. the chloride concentration, as determined by EPA method 300.1, does not exceed **500 mg/kg or 1000 mg/kg**. (See depth to ground water restrictions above.)
2. The Owner/Operator shall collect and analyze at least **one** composite soil sample, consisting of **four** discrete samples, from the treatment zone at least **semi-annually** using the methods specified above for TPH and chlorides.
3. The maximum thickness of treated soils in a landfarm cell shall not exceed **two feet** or approximately **3000 cubic yards per acre**. When that thickness is reached, the Owner/Operator shall not place additional oil field waste in the landfarm cell until it has demonstrated by monitoring the treatment zone at least semi-annually that the contaminated soil has been treated to the standards specified in Rule 36.15.F or the contaminated soils have been removed to a division-approved surface waste management facility. Owner/Operators **must** obtain authorization from the OCD prior to application of successive lifts and/or removal of the remediated soils.

The requirements of Rule 36 that would require an Owner/Operator to submit a modification request regarding treatment zone monitoring to an existing landfarm are as follows:

- “The operator shall spread contaminated soils on the surface in **eight-inch or less lifts** or approximately 1000 cubic yards per acre per eight-inch lift.” (See 19.15.36.15.D NMAC)
- “TPH concentration of each lift, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed **2500 mg/kg**.” (See 19.15.36.15.D NMAC)

B. Vadose Zone Monitoring (native soils beneath the contaminated soils being remediated):

In regards to vadose zone monitoring (commonly referred to by the misnomer of “Treatment Zone Monitoring” within existing landfarm permits), most Owner/Operators of existing surface waste management facilities that operate landfarms have common language or conditions specified within their permits. For this example two of the most common permit conditions regarding the

vadose zone will be used to demonstrate how an Owner/Operator would comply with the transitional provision of Rule 36.20.A, and what requirements of the rule would require an Owner/Operator to submit a request to modify an existing permit.

Two of the most common conditions in an existing landfarm permit are as follows:

1. A treatment zone not to exceed **three (3) feet** beneath the landfarm native ground surface must be monitored. A minimum of one random soil sample must be taken from each individual cell, with no cell being larger than five (5) acres, **six (6) months** after the first contaminated soils are received in the cell and then **quarterly** thereafter. The sample must be taken at two (2) to three (3) feet below the native ground surface.
2. The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) **quarterly** and for major cations/anions and Water Quality Control Commission (WQCC) metals **annually**.

Based upon the transitional provision of Rule 36.20.A, an Owner/Operator would have to implement and integrate the following **additional requirements** while complying with the conditions specified above.

- The testing for chlorides and the comparison of the results to background: *“The operator shall collect and analyze a minimum... using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred.”* (See 19.15.36.15.E(2) NMAC).
 - i. *Note:* The “methods specified below for TPH, BTEX and chlorides” are those identified in Subsection F of 19.15.36.15 NMAC: “Total BTEX, as determined by EPA SW-846 method 8021B or 8260B...” (See 19.15.36.15.F(2) NMAC); “TPH, as determined by EPA method 418.1 or other EPA method approved by the division...” (See 19.15.36.15.F(3) NMAC); and “Chlorides, as determined by EPA method 300.1...” (See 19.15.36.15.F(3) NMAC).
- The five year monitoring program: *“The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred.”* (See 19.15.36.15.E(3) NMAC).
 - ii. *Note:* The “methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC” are those identified in Subsection F of 19.15.36.15 NMAC: “The concentration of constituents listed in Subsections A and B of 20.6.2.3103

NMAC shall be determined by *EPA SW-846 methods 6010B or 6020* or other methods approved by the division.” (See 19.15.36.15.F(5) NMAC)

- The release response: *“If vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations, then the operator shall notify the division’s environmental bureau of the exceedance, and shall **immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC.** The operator shall submit the results of the re-sampling event and a response action plan for the division’s approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm’s operation to prevent further contamination and, if necessary, a plan for remediating existing contamination.”* (See 19.15.36.15.E(5) NMAC)

The requirements of Rule 36 that would require an Owner/Operator to submit a modification request regarding vadose zone monitoring to an existing landfarm are as follows:

- *“The operator shall take the vadose zone samples from soils between three and four feet below the cell’s original ground surface.”* (See 19.15.36.15.E(1) NMAC)
- *“The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone at least **semi-annually**...”* (See 19.15.36.15.E(2) NMAC)

C. Transitional Provisions, New Landfarm Cells Constructed at an Existing Surface Waste Management Facility:

The transitional provision, Rule 36.20.B, states “Major modification of an existing surface waste management facility and new landfarm cells constructed at an existing surface waste management facility shall comply with the requirements provided in 19.15.36 NMAC.” In this case, an Owner/Operator is required to consider the siting criteria and operational requirements regarding landfarms specified in Rule 36.13; the specific requirements applicable to landfarms specified in Rule 36.15; and the closure and post closure requirements regarding landfarms of Rule 36.18. The existing permit conditions would not be applicable to new landfarm cells at the existing facility, but would continue to apply to landfarm cells that were constructed prior to the February 14, 2007 effective date of Rule 36.

II. Compliance with Additional Operational Requirements:

Other regulatory requirements that Owner/Operators of existing surface waste management facilities that operate landfarms should be aware of and consider when operating its facility are as follows:

A. Reuse of remediated soils:

Most existing surface waste management facility permits regarding landfarming do not specify the constituents and concentrations that must be achieved for reuse of treated or remediated soils. Rule 36 has a provision that specifically addresses the conditions of approval for reuse of treated

soils. Rule 36.15.G(1), disposition of treated soils, states *“If the operator achieves the closure performance standards specified in Subsection F of 19.15.36 NMAC, then the operator may either leave the treated soils in place, or, with prior division approval, dispose or reuse of the treated soils in an alternative manner.”*

In accordance with the treatment zone closure performance standards of Rule 36.15.F, *“the operator shall continue treatment until the contaminated soil has been remediated to the higher of the background concentrations or the following closure performance standards. The operator shall demonstrate compliance with the closure performance standards by collecting and analyzing a minimum of one composite soil sample, consisting of four discrete samples.*

(1) Benzene, as determined by EPA SW-846 method 8021B or 8260B, shall not exceed **0.2 mg/kg**.

(2) Total BTEX, as determined by EPA SW-846 method 8021B or 8260B, shall not exceed **50 mg/kg**.

(3) The gasoline range organics (GRO) and diesel range organics (DRO) combined fractions, as determined by EPA SW-846 method 8015M, shall not exceed **500 mg/kg**. TPH, as determined by EPA method 418.1 or other EPA method approved by the division, shall not exceed **2500 mg/kg**.

(4) Chlorides, as determined by EPA method 300.1, shall not exceed **500 mg/kg if the landfarm is located where ground water is less than 100 feet but at least 50 feet below the lowest elevation at which the operator will place oil field waste or 1000 mg/kg if the landfarm is located where ground water is 100 feet or more below the lowest elevation at which the operator will place oil field waste.**

(5) The concentration of constituents listed in Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020 or other methods approved by the division. If the concentration of those constituents exceed the PQL or background concentration, the operator shall **either** perform a site specific risk assessment using EPA approved methods and shall propose closure standards based upon individual site conditions that protect fresh water, public health, safety and the environment, which shall be subject to division approval **or** remove pursuant to Paragraph (2) of Subsection G of 19.15.36.15 NMAC.”

B. Waste Acceptance:

Based upon conversations with several landfarm Owner/Operators, it has come to OCD's attention that the proper waste acceptance protocol is not being implemented at all applicable facilities. In accordance with Rule 36.15.A, *“Only soils and drill cuttings predominantly contaminated by petroleum hydrocarbons shall be placed in a landfarm. The division may approve placement of tank bottoms in a landfarm if the operator demonstrates that the tank bottoms do not contain economically recoverable petroleum hydrocarbons. Soils and drill cuttings placed in a landfarm shall be sufficiently free of liquid content to pass the paint filter test, and shall not have a chloride concentration exceeding **500 mg/kg if the landfarm is located where ground water is less than 100 feet but at least 50 feet below the lowest elevation at which the operator will place oil field waste or exceeding 1000 mg/kg if the landfarm is located where ground water is 100 feet or more below the lowest elevation at which the operator will place oil field waste.** The person tendering oil field waste for treatment at a landfarm shall **certify**, on form C-138, that representative samples of the*

oil field waste have been subjected to the paint filter test and tested for chloride content, and that the samples have been found to conform to these requirements. The landfarm's operator shall not accept oil field waste for landfarm treatment unless accompanied by this certification.

All landfarm Owner/Operators should be implementing the above referenced requirements in order to ensure compliance to the transitional and waste acceptance provisions of Rule 36. Please note that pursuant to Rule 36.7.A(3), a landfarm "means a discrete area of land designated and used for the remediation of petroleum hydrocarbon-contaminated soils and drill cuttings." Landfarm Owner/Operators should ensure that the waste material accepted for remediation at their facilities contains petroleum hydrocarbons. Acceptance of any other waste material could be considered disposal.

Please note that if you are currently implementing the protocols identified above, OCD appreciates your efforts to continually remain in compliance with the regulations. As for Owner/Operators that are not currently in compliance, the goal of OCD is to get you back on track and in compliance. OCD anticipates observing the changes identified above in the submittal of the results of the next sampling event. If there are any questions regarding this matter, please do not hesitate to contact Mr. Brad A. Jones of my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Jami Bailey
Division Director
Oil Conservation Division

JB/baj

cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., Midland, TX 79701