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

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

Form C-144 July 21, 2008

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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Operator: <u>Chevron Midcontinent, LP</u> OGRID #: <u>241333</u>
Address: _P.O. Box 36366 Houston, TX 77236
Facility or well name: Redfern #1
API Number: 30-045-29035 OCD Permit Number:
U/L or Qtr/Qtr Section _14 Township _29 N Range _13W County:
Center of Proposed Design: Latitude <u>36 723047°</u> Longitude <u>108 179558°</u> NAD: 1927 1983
Surface Owner: 🗌 Federal 🗋 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
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: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
A. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: <u>95bbl</u> bbl Type of fluid: <u>Produced Water</u> Tank Construction material: <u>Steel</u> Secondary containment with leak detection □ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner □ Visible sidewalls only □ Other Liner type: Thickness mil □ HDPE □ PVC □ Other
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 None.

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

Screen 🗌 Netting 🗌 Other_

7.

8

Monthly inspections (If netting or screening is not physically feasible)

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 office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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 accept	table source									
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate approximate approximat	priate 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 dryi	ng 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 Please reference hydrogeologic report and printout from iWATERS database.	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).										
- Please reference the attached topographic map with distance rings. In addition, a field visit was conducted by Envirotech in July 2008										
certifying that, at the time, there were no watercourses within the distance specified above.										
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	□ Yes ⊠ No □ NA									
 Please reference the attached aerial photo. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no referenced buildings within the distance specified above. 										
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No ⊠ NA									
 Please reference the attached aerial photo. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no referenced buildings within the distance specified above. 										
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	🗌 Yes 🛛 No									
 Please reference the attached iWATERS printout. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no wells or springs within the distances specified above. 	y 6/5/1									
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.										
The site is not within any known incorporated municipal boundaries, please reference the attached topographic map.										
Within 500 fast of a walland										
winning our rection a wettandu.										
certifying that, at the time, there were no wetlands within the distance specified above	□ Yes ⊠ No									
Within the area overlying a subsurface mine.										
- Please reference the attached topographic map										
	∐ Yes ⊠ No									
within an unstable area.										
- Please reference the attached topographic map which includes FEMA flood map data. The map indicates the well site is outside of any										
known roo year noodprains.	🗌 Yes 🛛 No									

Within a 100-year floodplain.

FEMA map

 11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a che</i> <i>attached.</i> Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subs Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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 requirement and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or 	Subsection B of 19.15.17.9 NMAC ck mark in the box, that the documents are ection B of 19.15.17.9 NMAC 2) of Subsection B of 19.15.17.9 NMAC 0 NMAC direments of Subsection C of 19.15.17.9 NMAC Permit Number:
12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a checklist. Instructions: Each of the following items must be attached to the application. Please indicate, by a checklist. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Parag Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 requirement and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	ack mark in the box, that the documents are raph (3) of Subsection B of 19.15.17.9 equirements of 19.15.17.10 NMAC uirements of Subsection C of 19.15.17.9 NMAC (Applies only to closed-loop system that use
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a cheattached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.1 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMA 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 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 19.15.17.12 NMAC Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and	ck mark in the box, that the documents are 9 NMAC 0 NMAC C 17.11 NMAC 15.17.11 NMAC 11 NMAC 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below- □ 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 F 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of 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 □ 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	egrade Tank Closed-loop System Closed-loop System Closed-loop System Comparison Comparison of the second se

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks o Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids	r Haul-off Bins Only: (19.15.17.13.E and drill cuttings. Use attachment if n) NMAC) nore than two								
facilities are required.	<u> </u>									
Disposal Facility Name: Disposal Faci	lity Permit Number:									
Disposal Facility Name: Disposal Faci	lity Permit Number:									
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information below) No										
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.1	of Subsection H of 19.15.17.13 NMAC 3 NMAC .17.13 NMAC	2								
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. provided below. Requests regarding changes to certain siting criteria may require administrati considered an exception which must be submitted to the Santa Fe Environmental Bureau office demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	Recommendations of acceptable sour ve approval from the appropriate distr e for consideration of approval. Justij	ce material are rict office or may be fications and/or								
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	n nearby wells	☐ Yes ☐ No ☐ NA								
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from	n 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	n 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 										
 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 										
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										
 Within incorporated municipal boundaries or within a defined municipal fresh water well field co adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality. 	vered under a municipal ordinance m the municipality	🗌 Yes 🗌 No								
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (control of the second s	ertification) 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 I	Division	🗌 Yes 🗌 No								
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Re Society; Topographic map 	esources; USGS; NM Geological	🗌 Yes 🗌 No								
Within a 100-year floodplain. - FEMA map		Yes No								
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following ite by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19. Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19. 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 Confirmation Sampling Plan - based upon the appropriate requirements of Subsection F Confirmation Sampling Plan - based upon the appropriate requirements of Subsection F Confirmation Sampling Plan Permit Number (for liquids, drilling fluids and drill cuttings or 	ms must be attached to the closure pla 9.15.17.10 NMAC of 19.15.17.13 NMAC irements of 19.15.17.11 NMAC on the appropriate requirements of 19.1 ubsection F of 19.15.17.13 NMAC of 19.15.17.13 NMAC	an. Please indicate, 15.17.11 NMAC bt be achieved)								

Disposar a centry rathe and remnt remnt remnt requires, enting rends and entire entings of in case on-site
 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
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

^{19.} Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowle	dge and belief.
Name (Print): Rodney Bailey Title: Waste & Water Group Lea	ad
Signature: Date: March 1, 2010	
e-mail address: <u>Bailerg@chevron.com</u> Telephone: (432) 687 7123	
20. <u>OCD Approval</u> : Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see atta	chment)
OCD Representative Signature: Approval Date	e: <u>6/5/13</u>
Title: Semon Hydrologist OCD Permit Number:	
^{21.} <u>Closure Report (required within 60 days of closure completion)</u> : 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 The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. P section of the form until an approved closure plan has been obtained and the closure activities have been completed.	d submitting the closure report. lease do not complete this
Closure Completion Date:	
 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Remova If different from approved plan, please explain. 	l (Closed-loop systems only)
^{23.} Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tank Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were dispose two facilities were utilized.	s or Haul-off Bins Only: d. Use attachment if more than
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 se \Box Yes (If yes, please demonstrate compliance to the items below) \Box No	rvice and operations?
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 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 NA	<i>1. Please indicate, by a check</i> AD: □1927 □ 1983
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approximation of the specified of the specifie	best of my knowledge and ved closure plan.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	

	Site Inventory Sheet		/
Well Name & Number:	FERN#1		DATE: 7/28/88
API #:			Initials: RB/SP
Lease #:/A			_
Quarter/Quarter: Sec	tion: <u>14</u> Township:	29N Ran	ge: /3W
Lat: <u>N36.723647</u> L	ong: <u>W108*/79558</u> °	-	
Pit Tank #1: Manufacturer:			-
Serial #:	DOM:	Size	bbl
 If N/A – Dimensions: Dian 	neter 12'	Height 6	, /
Material: Steel X	Galvanized	Fiberglass	
Tank Configuration: Double Wal	I <u>X</u> Single Wall (Bu)	ried or E	xposedWalls)
Contents: Produced Water X	Condensate Recyc	led Oil	
Tank Top Covering: Solid/Cone-t	op Netting X (Solid_)	Fiber_)	
Secondary Containment: Yes 🗶	No		
Fencing around berm: Yes	No_X		
• Fence Type: Cattle Panel_	Field Fence	Barbwire	
Pit Tank #2: Manufacturer:			_
Serial #:	DOM:	Size	bbl
• If N/A – Dimensions: Diam	neter	Height	
Material: Steel	Galvanized	Fiberglass	
Tank Configuration: Double Wal	I Single Wall(Bui	ried or E	xposed Walls)
Contents: Produced Water	Condensate Recycl	led Oil	
Tank Top Covering: Solid/Cone-t	op Netting (Solid	Fiber)	
Secondary Containment: Yes	No		
Fencing around berm: Yes	No		
o Fence Type: Cattle Panel	Field Fence	Barbwire	
Above-Ground Tank #1: Manu	ifacturer: AP /		
Serial #: 37765	DOM: 10-04	Size	bbl
 If N/A – Dimensions: Diam 	eter 12'	Height 2	a (
Material: Steel X	Galvanized	Fiberglass	
Material: Steel <u>X</u> Contents: Produced Water ✓	Galvanized Condensate (State #	Fiberglass	Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X	Galvanized Condensate (State # No	Fiberglass	Recycled Oil
Material: Steel <u>X</u> Contents: Produced Water <u>X</u> Secondary Containment: Yes <u>X</u>	Galvanized Condensate (State # No	Fiberglass	Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu	Galvanized Condensate (State # No	Fiberglass	Recycled Oil
Material: Steel <u>X</u> Contents: Produced Water <u>X</u> Secondary Containment: Yes <u>X</u> Above-Ground Tank #2: Manu Serial #:	Galvanized Condensate (State # No Ifacturer: DOM:	Fiberglass	Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu Serial #: 0 If N/A – Dimensions: Diam	Galvanized Condensate(State # No Ifacturer: DOM:	Fiberglass P(4) Size Height	Recycled Oil
Material: Steel <u>X</u> Contents: Produced Water <u>X</u> Secondary Containment: Yes <u>X</u> Above-Ground Tank #2: Manu Serial #: <u> </u>	Galvanized Condensate (State # No Ifacturer: DOM: Reter Galvanized	Fiberglass P(4) Size Height Fiberglass	Recycled Oil
Material: Steel X Contents: Produced Water X. Secondary Containment: Yes X. Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water	Galvanized Condensate (State #	Fiberglass P(4) Size Height Fiberglass	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes	Galvanized Condensate(State # No Ifacturer: DOM: DOM: teter Galvanized Condensate(State # No	Fiberglass // /4) Size Height Fiberglass)	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X. Secondary Containment: Yes X. Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes	Galvanized Condensate(State # No ifacturer: DOM: DOM: dalvanized Condensate(State # No	Fiberglass // /4) Size Height Fiberglass)	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes Above-Ground Tank #3: Manu	Galvanized Condensate(State # No Ifacturer: DOM: DOM: Galvanized Condensate(State # No	Fiberglass P(4) Size Height Fiberglass)	Recycled Oil bbl Recycled Oil
Material: Steel Contents: Produced Water Secondary Containment: Yes Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes Above-Ground Tank #3: Manu Serial #:	Galvanized Condensate(State # No ifacturer: DOM: deter Galvanized Condensate(State # No ifacturer: DOM:	Fiberglass P(4) Size Height Fiberglass)	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes Above-Ground Tank #3: Manu Serial #:	Galvanized Condensate (State #_ No	Fiberglass	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X Secondary Containment: Yes X Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water Secondary Containment: Yes Above-Ground Tank #3: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel	Galvanized Condensate(State # No ifacturer: DOM: deter Galvanized Condensate(State # No ifacturer: DOM: eter Calvanized	Fiberglass P(A) Size Height Fiberglass) Size Height Fiberglass	Recycled Oil bbl Recycled Oil
Material: Steel X Contents: Produced Water X. Secondary Containment: Yes X. Above-Ground Tank #2: Manu Serial #: o If N/A – Dimensions: Diam Material: Steel Contents: Produced Water o If N/A – Dimensions: Diam Material: Steel Contents: Diam Material: Steel Contents: Produced Water	Galvanized Condensate(State # No Ifacturer: DOM: Galvanized Condensate(State # No Ifacturer: DOM: neter Galvanized Condensate(State #	Fiberglass P(4) Size Height Fiberglass) Size Height Fiberglass	Recycled Oil bbl Recycled Oil bbl
	Well Name & Number: ReD API #:	Site Inventory Sheet Well Name & Number: $Perfer A \#/$ API #:	Site Inventory Sheet Well Name & Number: $PEDFGRN # / 4$ API #:



From below-grade tanks to any permanent residence, school, church, hospital, etc.______
 309 FT
 309 FT
 309 FT
 309 FT
 309 FT



Redfern 1 API # 30-045-29035





0.12

0.16

nge Drought, precipit alid for the time

ORMATION PROVIDED BY THESE MAPS IS HOUT WARRANTY OF ANY KING, ETHER O'OUT WARRANTY OF ANY KING, ETHER D'OR IMPLIED, INCLUDING, BU'T NOT LIN D'WARRANTIES OF MERCHANTABILITY RA PARTICULAR PURPOSE DIR or Ink these maps shall be used and relied upon o T NOT LIMITED TO ing linc, its officients, of ing out of the use of the



Red Fern 1 API # 30-045-29035 NE ¼ SW ¼ Sec. 14 T29N R13W



Redfern #1 Groundwater Statement

The attached iWATERS database search and topographic map shows a water well approximately 1,551 feet to the west with a depth to groundwater of 10 feet. This water well is labeled on the topographic map with a red point. As evidenced on the attached topographic map, the water well is at an elevation approximately 7 feet lower than the Redfern #1 well site, which is represented by a blue flag on the topographic map. The attached cathodic well data sheet for the Roberts Gas COM B #1 well site, owned and operated by BP America, shows that groundwater was encountered at 40 feet. This cathodic well data sheet is stamped as being accepted by the OCD in March of 1998. The Roberts Gas COM B #1 well site is located approximately 3,536 feet to the north-east of the Redfern #1 well site at an elevation approximately 17 feet higher than the Redfern #1 well site. The Roberts Gas COM B #1 well site is represented on the map with a yellow flag. The soil type at the Redfern #1 well site is a Garland loam. This is a well drained soil, characterized by mixed alluvium, with a moderate available water capacity. The nearest surface water is approximately 200 feet to the north of the Redfern #1 well site at an elevation of 5,342 feet. This wash may no longer exist in its pictured form on the topographic map, due to development in the area not shown on the topographic map. It is likely that the wash no longer exists, and all surface runoff flows along streets and parking areas, and into the storm water management system for the city of Farmington, New Mexico. The Redfern #1 well site lies in the Nacimiento Formation Aquifer which dips at 6 degrees to the north-east (Frenzel, 1983); see Topographic Map for aquifer dip direction. The Nacimiento Formation lies at the surface in a broad belt at the western and southern edges of the central basin and dips beneath the San Jose Formation in the basin center. (Frenzel, 1983). These findings indicate that the depth to groundwater may not be greater than 50 feet from the bottom of the BGT at the Redfern #1 well site. All above information, excluding the aquifer dip, was confirmed by a visual inspection performed by Envirotech, Inc

The Nacimiento Formation (Tn) is Paleocene in age and grades laterally into the Animas Formation (Tka) around Dulce, New Mexico thickening considerably around Durango, Colorado. The Animas occurs at the same stratigraphic interval as the Nacimientos (Fassett and Hinds, 1971, p. 34). The Nacimiento sits unconformably to conformably below the San Jose Formation, outcrops in a broad band inside the southern and western boundaries of the central basin and rises structurally as a narrow band along the west side of the Nacimiento Uplift (Baltz, 1967, p. 35). The Nacimiento is the surface formation in the eastern third of the San Juan Basin, and being nonresistant, erodes to low rounded hills or the formation of badlands-type physiography distinctive from the much more resistant overlying San Jose Formation. The Nacimiento Formation is present in only the southern two-thirds of the Basin where it conformably both overlies and intertongues with the much thinner Ojo Alamo Sandstone (Fassett, 1974, p. 229). Thickness ranges from 800 feet in the southern part to nearly 2232 feet (Stone, etal, 1983, p. 30) in the subsurface of the northern part. In the eastern outcrops, the thickness is less than 500 feet to nearly 1400 feet due to folding and erosion (Baltz, 1967, p. 1). In general, the total thickness of the Nacimiento thickens from the basin margins towards the basin center. The Nacimiento in the southern area is comprised predominantly of

drab interbedded black and gray claystones and siltstones with some discontinuous relatively unconsolidated white, medium to coarse-grained arkosic sandstone with a few interbedded resistant sandstone strata (Stone, etal, 1983, p.30). To the north, the Naciemento Formation contains a much greater proportion of sandstone, and at some localized places more than 50 percent (Baltz, 1967, p. 1), although most of the sandstones extend only a few thousand feet (Brimhall, 1973, p. 201). Overall, the environment of deposition is predominantly lake deposits and to a lesser extent localization in stream channels (Brimhall, 1973, p. 201).



Soil Map—San Juan County, New Mexico, Eastern Part (Redfern #1)



Soil Map–San Juan County, New Mexico, Eastern Part (Redfern #1)



Map Unit Legend

San Juan County, New Mexico, Eastern Part (NM618)									
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI						
Av	Avalon sandy loam, 2 to 5 percent slopes	32.6	5.6%						
Bk	Blackston loam, 0 to 3 percent slopes	17.4	3.0%						
Ga	Garland loam	502.0	87.0%						
W Lakes, rivers, reservoirs		0.6	0.1%						
Wr	Werlog loam	24.3	4.2%						
Totals for Area of Intere	st	576.9	100.0%						



San Juan County, New Mexico, Eastern Part

Ga—Garland loam

Map Unit Setting

Elevation: 4,800 to 6,000 feet *Mean annual precipitation:* 6 to 10 inches *Mean annual air temperature:* 51 to 55 degrees F *Frost-free period:* 140 to 160 days

Map Unit Composition

Garland and similar soils: 95 percent

Description of Garland

Setting

Landform: Terraces Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 3 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum content: 5 percent Gypsum, maximum content: 5 percent Maximum salinity: Nonsaline to very slightly saline (2.0 to 4.0 mmhos/ cm) Sodium adsorption ratio, maximum: 10.0 Available water capacity: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 7e Ecological site: Loamy (R035XB001NM)

Typical profile

0 to 4 inches: Loam 4 to 24 inches: Clay loam 24 to 60 inches: Very gravelly loamy sand

Data Source Information

Soil Survey Area: San Juan County, New Mexico, Eastern Part Survey Area Data: Version 9, Feb 20, 2009

USDA

API	DATA SHEET FOR DEEP GROUND BED CATHODIC NORTHWESTERN NEW MEXIC (Submit 3 copies to OCD Aztec Offi	PROTECTION WELLS CO (ce) 33/4
	Operator <u>EPF5</u> Location: Unit <u>NE</u> Sec.	<u> 4</u> Twp <u>29</u> Rng <u> 3</u>
	Name of Well/Wells or Pipeline Serviced <u>Roberts G.C. 8#1</u>	# 5-2901013
	Elevation Completion Date $\frac{4 - 10 - 97}{7}$ Total Depth 38.5 Casing, Sizes, Types & Depths $856''$ PVC $34'$	Land Type *
	If Casing is cemented, show amounts & types used <u>15 bags</u> Z/a	type 142
	If Cement or Bentonite Plugs have been placed, show depths & amounts used	
-	Depths & thickness of water zones with description of water when possible:	
	Fresh, Clear, Salty, Sulphur, Etc. Some water at 40'. Hit	-water at
	150' 3-G.P.M.	
	Depths gas encountered:	MAR = 2 1999
	Type & amount of coke breeze used: Lorasco Sw 4500 Lbs	
	Depths anodes placed: 180' - 355	DIGL GOIN. DIV.
	Depths vent pipes placed: <u>385'</u>	
	Vent pipe perforations:240 '	
	Remarks:	
		Don Jon Hitt

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

.....

* Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.



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

		(quarte	ers a	re	1=N	IW 2=	=NE 3=	=SW 4:	=SE)				
		(quarte	ers a	re :	sma	allest	to larg	est)	(NAD83 UTN	I in meters)		(In feet)	
POD Number	Sub basin Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rna	Х	Y	Depth D Well M	epth M laterCo	later olum
SJ 00176	DOM	SJ	3	1	3	14	29N	13W	215697	4068961*	35	10	2
SJ 00716	DOM	SJ			1	14	29N	13W	216015	4069663*	30	12	1
SJ 01635	DOM	SJ		4	2	14	29N	13W	217023	4069414*	35	9	2
SJ 01970	DOM	SJ	2	4	1	14	29N	13W	216316	4069545*	32	30	
SJ 02024 EXPLOR-1	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-10	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-11	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-12	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-13	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-14	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-15	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	14	4	
SJ 02024 EXPLOR-16	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-17	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-18	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-19	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-2	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-20	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-21	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-22	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-23	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-24	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-25	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-3	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-4	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-5	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-6	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-7	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-8	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	
SJ 02024 EXPLOR-9	EXP	SJ	1	1	2	14	29N	13W	216535	4069929*	12	4	

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	Sub	text.	Q	Q	Q						Depth De	epth Wa	ter
POD Number	basin Use	County	64	16	4	Sec	Tws	Rng	Х	Y	Well W	aterColu	umn
SJ 02307	DOM	I SJ			1	14	29N	13W	216015	4069663*	15	5	10
SJ 02709	DOM	SJ		3	1	14	29N	13W	215814	4069462*	28	10	18
SJ 03097	DOM	I SJ	3	1	1	14	29N	13W	215730	4069761*	18	6	12
SJ 03625	DOM	I SJ	1	4	1	14	29N	13W	216116	4069545*	27	6	21
									Aver	age Depth t	o Water:	5 feet	
										Minimun	n Depth:	4 feet	
										Maximun	n Depth:	30 feet	

Record Count: 33

PLSS Search:

Section(s): 14

Township: 29N

Range: 13W

*UTM location was derived from PLSS -see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

BELOW GRADE TANK (BGT) DESIGN AND CONSTRUCTION PLAN

SUBMITTED TO:

ENVIRONMENTAL BUREAU,

NEW MEXICO OIL CONSERVATION DIVISION

ON BEHALF OF:

CHEVRON USA INC., CHEVRON MIDCONTINENT, L.P., AND FOUR STAR OIL & GAS COMPANY P.O. Box 730 Aztec, New Mexico 87410 (505) 333-1901

Chevron San Juan Basin Below Grade Tank Design and Construction Plan

INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.11 Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Design and Construction Plan for below grade tanks (BGTs) in New Mexico. This Plan contains standard conditions that attach to multiple BGTs.

- 1. Chevron will design and construct a BGT to contain liquids and solids, prevent contamination of fresh water, and protect public health and the environment. NMAC § 19.15.17.11(A).
- 2. Chevron will post an upright sign not less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the BGT, unless the BGT is located on a site where there is an existing well, signed in compliance with NMAC § 19.15.16.8, that is operated by Chevron. Chevron will post the sign in a manner and location such that a person can easily read the legend. The sign will provide the following information: Chevron's name; the location of the site by quarter-quarter or unit letter, section, township and range; and emergency telephone numbers. NMAC § 19.15.17.11(C).
- 3. Chevron will fence or enclose a BGT in a manner that prevents unauthorized access and will maintain the fences in good repair. Fences are not required if there is an adequate surrounding perimeter fence that prevents unauthorized access to the well site or facility, including the BGT. NMAC § 19.15.17.11(D)(1).
- 4. Chevron will fence or enclose a BGT located within 1000 feet of a permanent residence, school, hospital, institution or church with a chain link security fence, at least six feet in height with at least two strands of barbed wire at the top. Chevron will close and lock all gates associated with the fence when responsible personnel are not on-site. NMAC § 19.15.17.11(D)(2).
- 5. Chevron will fence BGTs to exclude livestock with a four foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level. NMAC § 19.15.17.11(D)(3). Chevron may install tubular steel cattle panels, as it determines appropriate (photo of cattle

panel fence submitted to NMOCD, 24 June 2009). As illustrated on the attach photo.

- 6. Chevron will screen the permanent opening on the tank top with expanding steel mesh in order to render it non-hazardous to wildlife, including migratory birds. NMAC § 19.15.17.11(E).
- 7. Chevron's BGTs will be constructed with the design features illustrated on the attached drawing.
- 8. Only double-walled, double-bottomed BGTs will be installed.
- 9. Chevron will use 3/16" carbon steel which is resistant to the anticipated contents and resistant to damage from sunlight. NMAC § 19.15.17.11(I)(1).
- 10. Chevron will construct a BGT foundation on a level base free of rocks, debris, sharp edges or irregularities to help prevent punctures, cracks or indentations of the liner or tank bottom. NMAC § 19.15.17.11(I)(2).
- 11. Chevron will construct a BGT to prevent overflow and the collection of surface water run-on. NMAC § 19.15.17.11(I)(3). Chevron, or a contractor representing Chevron, will install a level control device to help prevent overflow from the BGT and will use berms and/or a diversion ditch to prevent surface run on from entering the BGT. NMAC §§ 19.15.17.11(I)(3), 19.15.17.12(A)(7), and 19.15.17.12(D)(1).
- 12. All BGTs, in which the side walls are not open for visible inspection for leaks, will be double walled with leak detection capability. NMAC § 19.15.17.11(I)(4)(b).
- 13. Chevron, as the operator of a below-grade tank constructed and installed prior to June 16, 2008 that does not meet all the requirements in Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC and is not included in Paragraph (6) of Subsection I of 19.15.17.11 NMAC, is not required to equip or retrofit the below-grade tank to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC so long as it demonstrates integrity. If the existing below-grade tank does not demonstrate integrity, the operator shall promptly remove that below-grade tank and install a below-grade tank that complies with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, as illustrated in the approved drawing. Chevron shall comply with the operational requirements of 19.15.17.12 NMAC.

14. Chevron, as the operator of a below-grade tank constructed and installed prior to June 16, 2008 that is single walled and where any portion of the tank sidewall is below the ground surface and not visible, shall equip or retrofit the below-grade tank to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, or close it, within five years after June 16, 2008. If the existing below-grade tank does not demonstrate integrity, Chevron shall promptly remove that below-grade tank and install a below-grade tank that complies with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, as illustrated in the approved drawing. Chevron shall comply with the operational requirements of 19.15.17.12 NMAC.



BELOW GRADE TANK (BGT) CLOSURE PLAN

SUBMITTED TO:

ENVIRONMENTAL BUREAU,

NEW MEXICO OIL CONSERVATION DIVISION

ON BEHALF OF:

CHEVRON USA INC., CHEVRON MIDCONTINENT, L.P., AND FOUR STAR OIL & GAS COMPANY P.O. Box 730 Aztec, New Mexico 87410 (505) 333-1901

Chevron San Juan Basin Below Grade Tank Closure Plan

INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.13, Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Closure Plan for below grade tanks (BGTs) in New Mexico. This Closure Plan contains standard conditions that attach to multiple BGTs. If needed for a particular BGT, a modified Closure Plan for a proposed alternative closure will be submitted to the New Mexico Oil Conservation Division (NMOCD or the division) for approval prior to closure.

CLOSURE PLAN PROCEDURES AND PROTOCOLS (NMAC §§ 19.15.17.9(C) and 19.15.17.13).

- Chevron, or a contractor acting on behalf of Chevron, will close a BGT within the time periods provided in NMAC § 19.15.17.13(A), or by an earlier date required by NMOCD to prevent an imminent danger to fresh water, public health, or the environment. NMAC § 19.15.17.13(A).
- 2) Chevron, or a contractor acting on behalf of Chevron, will close an existing BGT that does not meet the requirements of NMAC § 19.15.17.11(I)(1 through 4) or is not included in NMAC § 19.15.17.11(I)(5) within five years after June 16, 2008, if not retrofitted to comply with § 19.15.17.11(I)(1 through 4). NMAC § 19.15.17.13(A)(4).
- 3) Chevron shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not retrofitted to comply with Paragraphs 1) through (4) of Subsection I of 19.15.17.11 NMAC, prior to any sale or change of operator pursuant to 19.15.9.9 NMAC.
- 4) Chevron, or a contractor acting on behalf of Chevron, will close a permitted BGT within 60 days of cessation of the BGT's operation or as required by the transitional provisions of NMAC § 19.15.17.17(B) in accordance with a closure plan that the appropriate division district office approves. NMAC §§ 19.15.17.13(A)(9) and 19.15.17.9(C).
- 5) In accordance with NMAC § 19.15.17.13(J)(1), Chevron will notify the surface owner by certified mail, return receipt recuested, of its plans to close a BGT prior to beginning closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance. Chevron will also notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number. NMAC § 19.15.17.13(J)(2).

- 6) Chevron, or a contractor acting on behalf of Chevron, will remove liquids and sludge from a BGT prior to implementing a closure method and will dispose of the liquids and sludge in a division approved facility. NMAC § 19.15.17.13(E)(1). A list of Chevron currently approved disposal facilities is included at the end of this document.
- 7) The proposed method of closure for this Closure Plan is waste excavation and removal. NMAC §§ 19.15.17.13 (E)(1).
- 8) Chevron, or a contractor acting on behalf of Chevron, 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. When required, prior approval for disposal will be obtained. NMAC § 19.15.17.13(E)(2). Documentation regarding disposal of the BGT and its associated liner, if any, will be included in the closure report.
- 9) Waste generated during closure will be handled and disposed of in accordance with applicable laws. NMAC § 19.15.35.8(C)(1)(m) provides that plastic pit liners may be disposed at a solid waste facility without testing before disposal, provided they are cleaned well.
- Chevron, or a contractor acting on behalf of Chevron, will remove on-site equipment associated with a BGT unless the equipment is required for some other purpose. NMAC § 19.15.17.13(E)(3).
- 11) Chevron, or a contractor acting on behalf of Chevron, will test the soils beneath the BGT to determine whether a release has occurred. At a minimum, 5 point composite samples will be collected along with individual grab samples from any area that is wet, discolored, or showing other evidence of a release. 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 EPA method that the division approves, does not exceed 0.2mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2mg/kg; and the division approves, does not exceed 50mg/kg; the TPH concentration, as determined by EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250mg/kg; or the background concentration, whichever is greater. Chevron, or a contractor acting on behalf of Chevron, will notify the NMOCD Division District office of its results on form C-141. NMAC § 19.15.17.13(E)(4).
- 12) If Chevron or the division determines that a release has occurred, Chevron will comply with NMAC §§ 19.15.29 and 19.15.30, as appropriate. NMAC § 19.15.17.13(E)(5).
- 13) If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in NMAC § 19.15.17.13(E)(4), Chevron will backfill the excavation with compacted, non-waste containing, earthen materials; construct a division prescribed soil cover; re-contour and re-vegetate the site. The division-prescribed soil cover, recontouring and re-vegetation requirements shall comply with NMAC § 19.15.17.13)(G, H and I). NMAC § 19.15.17.13(E)(6).

- 14) As per NMAC § 19.15.17.13(G)(1), once Chevron has closed a BGT or is no longer using the BGT or an area associated with the BGT, Chevron will reclaim the BGT location and all areas associated with it including associated access roads not needed by the surface estate owner to a safe and stable condition that blends with the surrounding undisturbed area. Chevron will substantially restore impacted surface area to the condition that existed prior to its oil and gas operations by placement of soil cover as provided in NMAC § 19.15.17.13(H) (see below), recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography, and re-vegetate according to NMAC § 19.15.17.13(I). NMAC § 19.15.17.13(G)(1).
- 15) Chevron may propose an alternative to the re-vegetation requirement of NMAC § 19.15.17.13(G)(1) if it demonstrates that the proposed alternative effectively prevents erosion, and protects fresh water, human health and the environment. The proposed alternative must be agreed upon in writing by the surface owner. Chevron will submit the proposed alternative, with written documentation that the surface owner agrees to the alternative, to the division for approval. NMAC § 19.15.17.13(G)(2).
- 16) Soil cover for closures where Chevron has removed the pit contents or remediated the contaminated soil to the division's satisfaction will consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. NMAC § 19.15.17.13(H)(1).
- 17) Chevron will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. N/MAC § 19.15.17.13(H)(3).
- 18) As per NMAC § 19.15.17.13(I)(1) and 19.15.17.13(G)(2), Chevron will seed or plant disturbed areas during the first growing season after it is no longer using a BGT or an area associated with the BGT including access roads unless needed by the surface estate owner as evidenced by a written agreement with the surface estate owner, if any and written approval by NMOCD.
- 19) Seeding will be accomplished by drilling on the contour whenever practical or by other division approved methods. Chevron will obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, Chevron will not artificially irrigate the vegetation. NMAC § 19.15.17.13(I)(2).
- 20) Chevron will notify the division when it has seeded or planted and when it successfully achieves re-vegetation. NMAC § 19.15.17.13(I)(5).
- Seeding or planting will be repeated until Chevron successfully achieves the required vegetative cover. NMAC § 19.15.17.13(I)(3).

- 22) When conditions are not favorable for the establishment of vegetation, such as periods of drought, the division may allow Chevron to delay seeding or planting until soil moisture conditions become favorable or may require Chevron to use additional cultural techniques such as mulching, fertilizing, irrigating, fencing or other practices. NMAC § 19.15.17.13(I)(4).
- 23) As per NMAC § 19.15.17.13(K), within 60 days of closure completion, Chevron will submit a closure report containing the elements required by NMAC § 19.15.17.13(K) including:
 - i) Confirmation sampling results,
 - ii) A plot plan,
 - iii) Details on back-filling, capping and covering, where applicable, including revegetation application rates and seeding technique,
 - iv) Proof of closure notice to the surface owner, if any, and the division,
 - v) Name and permit number of disposal facility, and
 - vi) Photo documentation.
- 24) The closure report will be filed on NMOCD Form C-144. Chevron will certify that all information in the closure report and attachments is correct and that it has complied with all applicable closure requirements and conditions specified in the approved closure plan. NMAC § 19.15.17.13(K).
- 25) As requested, the following are the current Chevron approved Waste Disposal Sites for the identified waste streams:

Soils and Sludges

i) Envirotech Inc. Soil Remediation Facility, Permit No. NM-01-0011

<u>Solids</u>

ii) San Juan County Regional Land Fill (NMAC § 19.15.35.8 items only, with prior NMOCD approval when required)

<u>Liquids</u>

- i) Key Energy Disposal Facility, Permit No. NM-01-0009
- ii) Basin Disposals Facility, Permit No. NM-01-005.
- 26) These waste disposal sites are subject to change if their certification is lost or they are closed or other more appropriate, equally protective sites become available. Chevron will provide notice if such a change is affected.