### District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., 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 sytems, 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

Proposed Alternative Method Permit or Closure Plan Application
Type of action:  X 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: ConocoPhillips Company OGRID#: 217817
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: KRAUSE WN FEDERAL 7E
API Number: 3004524216 OCD Permit Number;
U/L or Qtr/Qtr: J Section: 32 Township: 28N Range: 11W County: San Juan  Center of Proposed Design: Latitude: 36.6165310°N Longitude: -108.0233000°W NAD: X 1927 1983  Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: Drilling Workover  Permanent Emergency Cavitation P&A  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other  String-Reinforced  Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other  Liner Seams: Welded Factory Other
X   Below-grade tank: Subsection I of 19.15.17.11 NMAC
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 pit, 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 four toot height, four strands of barbed wire evenly spaced between one and four feet.	that institution or a home to
	and resolutions for Child(A)
X Alternate. Please specify 4' hog wire fencing topped with two strands harbed wire.	
7	
Netting:   Subsection F. of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
X Screen Netting Other	
Monthly inspections (If nenting 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	
X Signed in compliance with 19.15.3.103 NMAC	
g	
Administrative Approvals and Exceptions:	
histifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please theck a box if one or more of the following is requested, if not leave blank;	
X Administrative approval(s): Requests must be submitted to the	
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner)	r 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	
INSTRUCTIONS: The applicant must demonstrate asserts	
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Constant of the constant o	
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for require Physics and 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 those not apply to drying pads or above grade-tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes X No
1 Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes XNo
- 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	Yes X No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	-
(Applied to permanent pits)	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA
Within 500 horizonal feet of a private demostly fact to the second secon	
Within 500 horizonal 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.	Yes X No
hiba occ	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	
There is the portion municipal boundaries or within a default and the contract of the contract	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification formation for the section formation or verification formation for the section formation or verification for the section formation or verification for the section for the secti	Yes X No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes X No
VY LEGICI AN LICSTANIE BEER.	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes X No
	_
Within a 100-year floodplain - FEMA map	T Van Way
	Yes X No

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Tydingsevlogic Report (Tellow grade Tanks) - Stand upon the requirements of Paragaph () of Stabection B of 19.15.17.9 NMAC   Bydingsevlogic Report (Tellow grade Tanks) - Stand upon the requirements of Paragaph () of Stabection B of 19.15.17.9   String Criteria Compliance Demonstrations - Stand upon the appropriate requirements of 19.15.17.10 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Closure Plan (Pasac complete Brows 1 Harrogaph (8, 4 applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC     Operating Approved Design (nature double of the applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC     Operating Maintenance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.10 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.11 NMAC     Operating and Maintenance Plan - tassed upon the appropriate requirements of 19.15.17.11 NMAC     Operating Design Plans - based	
Stilly Green's Description   The State of the Company of the Com	Signature   Signature   State   Stat	grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC tacked to the application. Please indicate, by a check mark in the boy, that the documents are applicated
Tylydrogolyge Data (Temporary and Eurogency Pits) - based upon the requirements of 19.15.17.10 NMAC	Indusposinge Data (Temperary and Emergency Piss) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9   Siting Criteria Compliance Demonstrations - Issued 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   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.13 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Previously Approved Design (nature copy of design)	ks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
Stiting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	ergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19-15-47-9
Socian Plan - based upon the appropriate requirements of 19 15 17.12 NMAC	S.   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	as - based upon the appropriate requirements of 19.15.17.10 NMAC
Section   Clear   Plan   Planse complete flows   A through   N. if applicable)   based upon the appropriate requirements of Subsection C of   19.15.17.4 NMAC and 19.15.17.13 NMAC	S. Closure Plan (Plase complete Boxes 14 through 18, f applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	requirements of 19.15.17.11 NMAC
Cleasure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.1 NMAC	Storesure Plan (Plasse complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17 p. NMAC and 19.15.17.13 NMAC.   Previously Approved Design (attach cupy of design)	
Previously Approved Design (attach copy of design)	Previously Approved Design (attach copy of design)   AP    or Permit	through 18, if applicable) - based upon the appropriate requirements of Subscration Co. C
Classed-loop Systems Percuit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC   Institutions that the office of the comment of the attached to the application. Please indicate, he as sheet must in the here, that the document are attached.   Coclogic and Hydrogeologic Data (only for on site closure): based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Operating and Maintenance Plan - totaced upon the appropriate requirements of 19.15.17.11 NMAC   Operating and Maintenance Plan - totaced upon the appropriate requirements of 19.15.17.13 NMAC   Previously Approved Design Classes (19.15.17.13 NMAC   Previously Approved Design Classes (19.15.17.13 NMAC   Previously Approved Operating and Maintenance Plan   API   Operating and Maintenance Plan   Operating and Maintena	Closed-loop Systems Permit Application Attachment Checklet: Subsection B of 19.15.17.9 NIMAC home none. Each of the following items must be attached to the application. Please indicate, by a check mark in the bro., that the documents are attached.   Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.19   Sating Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.13 NMAC   NMAC and 19.15.17.13 NMAC   International Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Previously Approved Design (attach copy of design)   API   Previously Approved Design and Maintenance Plan   API   April 19.15.17.10 NMAC   International Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   International Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   International Each of the following items must be attached to the appropriate requirements of 19.15.17.10 NMAC   Cratified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Lack Descripton Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Description Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Number of	
Closed-loop Systems Permit Application Attachment Checklet. Subsection to if 19 15.17:9 NMAC	Closed-loop Systems Permit Apolleation Attachment Checklist: Subsection B of 19.15.17.9 NMAC   button time: Each of the following from since shows the application. Place indicate, by a check must in the box, that the documents are annotated to the application. Place indicate, by a check must in the box, that the documents are annotated to the application. Place indicate, by a check must in the box, that the documents are annotated.   Geologic and Hydrogeologic Data (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Design Application Previously Approved Design (attach copy of design)   API   NMAC and 19.15.17.13 NMAC   Previously Approved Design (attach copy of design)   API   Previously Approved Operating and Maintenance Plan   API	design) API or Permit
Permanent Pits Permit Application Checkdist: Subsection B of 19.15.17.9 NMAC   Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   Ilydrogeologic Report - based upon the requirements of Paragraph (10 of Subsection B of 19.15.17.19 NMAC   Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC   Critified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Contrul/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Nuisance or Hazardous Odurs, including H2S, Prevention Plan   Emergency Response Plan   Erosion Control Plan   Plan   Emergency   Cavitation   P&A   Permanent Pit   Below-grade Tank   Closed-loop System   Alternative   Plan	Permunent Pits Permit Application Cheedist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application, Please indicate, by a check mark in the box, that the documents are attached.    International Compliance Demonstrations - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Critifical Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC   Ouality Control/Quality Assurance Construction and Installation Plan	ached to the application. Please indicate, by a check mark in the box, that the documents are attached, or on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 as (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC requirements of 19.15.17.11 NMAC upon the appropriate requirements of 19.15.17.12 NMAC hrough 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 design)  API
Permuanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attacked to the application. Please indicate, by a check mark in the box, that the documents are attached.    Ilydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Critiral Exciture Assessment	Pernument Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC   Instructions: Each of the following items must be attacked to the application. Please indicate, by a check mark in the box, that the documents are attached.   Ilydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Curio and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Preparation and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H2S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Prepased Closure; 19.15.17.13 NMAC   Prepased Closure; 19.15.17.13 NMAC   Prepased Closure; 19.15.17.13 NMAC   Prepased Closure Plan - based upon the appropriate requirements of the prepased Closure plan.   On-site Closure Method:   Maste Removal (Closed-loop systems only)   On-site Closure Method:   On-site Trench   On-site Trench   On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	ince Plan API
Tryungeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC	Trydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Cirmatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Lake Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Precboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H2S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.   Closure Plan   Maste Excavation and Removal   (Below-Grade Tank)   Maste Excavation and Removal   (Below-Grade Tank)   Maste Excavation and Removal   Closed-loop systems only)   On-site Closure Method (only for temporary pits and closed-loop systems)   In-place Burial   On-site Trench   Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Citimatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Processor of Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Instructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Orilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Atternative  Proposed Closure Method: Waste Excavation and Removal (Closed-loop systems)  On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Maste Excavation and Removal Closure Plan Checklist; 119.15.17.13 NMAC Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans   based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design   based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibity Assessment   based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan   based upon the appropriate requirements of 19.15.17.12 NMAC   Prevention Plan   Prevention Pla	tached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Citratelological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  14  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Baxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System  Alternative  On-site Closure Method (Closed-loop systems only)  On-site Closure Method (Closed-loop systems only)  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  15  Waste Excavation and Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Protocols and Procedures - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for fuguids, drilling fluids and drill cuttings)	Cirtified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable bases, Bases 14 through 18, in regards to the proposed closure plan.  Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   X Below-grade Tank   Closed-loop System   Alternative  Proposed Closure Method:   Waste Excavation and Removal   (Below-Grade Tank)   Waste Removal (Closed-loop systems only)   On-site Closure Method (only for temporary pits and closed-loop systems)   In-place Burial   On-site Trench   Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	jurements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Prevboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Crosino Control Plan  Crosino Control Plan  Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable baxes. Baxes 14 through 18. In regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal (Below-Grade Tank)  Waste Excavation und Removal Closure Method (Closed-loop systems only)  On-site Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Maste Excavation und Removal Closure Plan Checklist: 119.15.17.13 NMAC Instructions: Each of the following items must be attached to the closure plan.  Planse indicate, by a check mark in the bax, that the documents are attached.  Yellow-Grade Tank Number (For liquids, drilling fluids and drill cuttures)	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC    Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H2S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC   Instructions: Please complete the applicable bases, Bases 14 through 18, in regards to the proposed closure plan.   Type:	s - based upon the appropriate requirements of 19.15,17,10 NMAC
Diske Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC     Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC     Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC     Quality Control/Quality Assurance Construction and Installation Plan     Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC     Treeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC     Nuisance or Hazardous Odors, including H2S, Prevention Plan     Emergency Response Plan     Oil Field Waste Stream Characterization     Monitoring and Inspection Plan     Erosion Control Plan     Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC     Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.     Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   Below-grade Tank   Closed-loop System     Alternative   Proposed Closure Method (   Waste Excavation and Removal (   Below-Grade Tank)     Waste Removal ( Closed-loop systems only)     On-site Closure Method ( only for temporary pits and closed-loop systems)     In-place Burial   On-site Trench     Alternative Closure Method ( Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)     Waste Excavation and Removal Closure Plan Checklist; (19.15.17.13 NMAC)   Instructions: Each of the following items must be attached to the closure plan.     Protocols and Procedures - based upon the appropriate requirements of 9.15.17.13 NMAC     Social Post of the Santa Fe Environmental Plan ( if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC     Social Post of Pos	Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  14  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	t upon the appropriate requirements of 10 15 12 11 NAAA C
Lake Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  14  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Plt Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	sign: based upon the appropriate requirements of 19 15 17 11 NAVAC
Liner Specifications and Compatibility Assurance Construction and Installation Plan  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC  14  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Society Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Society Special Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	propriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan	Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H2S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC   Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.   Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   X Below-grade Tank   Closed-loop System   Alternative   Waste Excavation and Removal (Below-Grade Tank)   Waste Removal (Closed-loop systems only)   On-site Closure Method:   On-site Closure Method (exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	sessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Precioard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H2S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC   Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.   Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   X Below-grade Tank   Closed-loop System   Alternative   Alternative   Alternative   Proposed Closure Method:   X Waste Excavation and Removal   (Below-Grade Tank)   Waste Removal (Closed-loop systems only)   On-site Closure Method (only for temporary pits and closed-loop systems)   In-place Burial   On-site Trench   Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)   Waste Excavation and Removal Closure Method (Exceptions must be submitted to the following items must be attached to the closure plan.   Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC   Sconfirmation Sampling Plan tif applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttines)	Freeboard and Overtopping Prevention Plan      based upon the appropriate requirements of 19.15.17.11 NMAC     Nuisance or Hazardous Odors, including H2S, Prevention Plan     Emergency Response Plan     Oil Field Waste Stream Characterization     Monitoring and Inspection Plan     Erosion Control Plan     Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC      Proposed Closure: 19.15.17.13 NMAC     Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.     Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   X Below-grade Tank   Closed-loop System   Alternative     Proposed Closure Method:   X Waste Excavation and Removal (Below-Grade Tank)     Waste Removal (Closed-loop systems only)     On-site Closure Method (only for temporary pits and closed-loop systems)     In-place Burial   On-site Trench   Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	iction and Installation Plan
Nuisance of Hazardous Odors, including H2S, Prevention Plan	Nutsance or Hazardous Odors, including H2S, Prevention Plan     Emergency Response Plan     Oil Field Waste Stream Characterization     Monitoring and Inspection Plan     Erosion Control Plan     Erosion Control Plan     Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC      Proposed Closure: 19.15.17.13 NMAC     Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.     Type:   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   X Below-grade Tank   Closed-loop System     Alternative     Proposed Closure Method:   X Waste Excavation and Removal   (Below-Grade Tank)     Waste Removal (Closed-loop systems only)     On-site Closure Method (only for temporary pits and closed-loop systems)     In-place Burial   On-site Trench     Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	pon the appropriate requirements of 19.15.17.12 NMAC
Emergency Response Plan	Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable baxes, Baxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	n - based upon the appropriate requirements of 19.15.17.11 NMAC
Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC      14	Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System  Alternative  Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	25, Prevention Plan
Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC	Y .
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System  Alternative  Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System  Alternative  Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	equirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.    Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC   Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Alternative  Proposed Closure Method:    X   Waste Excavation and Removal   (Below-Grade Tank)     Waste Removal (Closed-loop systems only)     On-site Closure Method (only for temporary pits and closed-loop systems)     In-place Burial   On-site Trench     Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttines)	Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Yerotocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
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Afternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Afternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
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X   Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC   X   Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC   X   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the Gillerian Checklist:	hecklist: (19.15.17.13 NMAC) Instructions: Each of the City Const.
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— Control of the cont	X Disposal Facility Name and Permit Number (for liquids, drilling fluids, and drill outling)	for builds, drilling fluids and drill outlines
[3] Soft Backini and Cover Design Specifications - based upon the appropriate requirements of Subsection 11 of 10 15 17 13 10 15	Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	is - based upon the appropriate requirements of Subsection 14 of 10 15 17 12 204.0
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	X Re-vegetation Plan - based upon the appropriate requirements of Subsection Lof 19 15 17 13 NMAC	ate requirements of Subsection Lot 19.15.17.13 NMAC
The form of American of American of American International Control of the Control	X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	opriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please identify the facility or facilities for the disposal of liquids, drill are resourced.	Steel Tanks or Haul-off Bins Only: (19/15/17/13.D NMAC ling thirds and drill cuttings. Use attachment if more than tw	) objectives					
Disposal Facility Name:							
Disposal Facility Name: Disposal Facility Permit #:  Disposal Facility Name: Disposal Facility Permit #:							
Will any of the proposed closed-loop system operations and associated activ  Yes (If yes, please provide the information No	ities occur on or in areas that will not be used for future	service and operations?					
Required for impacted areas which will not be used for future service and operatio  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Sub  Site Reclamation Plan - based upon the appropriate requirements of Sub	priate requirements of Subsection H of 19.15.17.13 NM section For 19.15.17.13 NMAC	AC					
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NM Instructions: Each string criteria requires a demonstration of compliance in the closure plan certain sating criteria may require administrative approval from the appropriate district officerions and/or demonstrations of equivalency are required.	1. Recommendations of acceptable source material are provided by	dons: Requests regarding changes to be Santa Fe Environmental Buresia office					
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No					
- NM Office of the State Engineer - iWATERS database search; USGS: Data o	btained from nearby wells	N/A					
Ground water is between 50 and 100 feet below the bottom of the buried was		Yes No					
<ul> <li>NM Office of the State Engineer - (WATERS database search; USGS; Data of</li> </ul>	tained from nearby wells	N/A □					
Ground water is more than 100 feet below the bottom of the buried waste,		Yes No					
<ul> <li>NM Office of the State Engineer - iWATERS database search, USGS; Data ob</li> </ul>	tained from nearby wells	N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signi (measured from the ordinary high-water mark).	ficant watercourse or lakehed, sinkhole, or playa lake	Yes No					
Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in 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 to purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exi - NM Office of the State Engineer - iWATERS database: Visual inspection (certif	stence at the time of the initial application.  (cation) of the proposed site	Yes No					
Within incorporated municipal boundaries or within a defined municipal fresh water pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval ob-	well field covered under a municipal ordinance adopted	Yes No					
Within 500 feet of a wetland  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual ins		Yes No					
Within the area overlying a subsurface mine.	1.2						
- Written confiramtion or verification or map from the NM EMNRD-Mining and	Mineral Division	LYes No					
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & M Topographic map	lineral Resources: USGS; NM Geological Society;	Yes No					
Within a 100-year floodplain FEMA map		Yes No					
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closure	plan. Please indicate,					
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19.15.17.10 NMAC						
Proof of Surface Owner Notice - based upon the appropriate requirement	ats of Subsection F of 19.15.17.13 NMAC						
Construction/Design Plan of Burial Trench (if applicable) based upon the	te appropriate requirements of 19.15.17.11 NMAC	1					
Construction/Design Plan of Temporary Pit (for in place burial of a drying	ng pad) - based upon the appropriate requirements of 19	.15.17.11 NMAC					
redocois 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 requirement	s of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, drilling fluids at	nd drill cuttings or in case on-site closure standards cann	not be achieved)					
Soil Cover Design - based upon the appropriate requirements of Subsect Re-vegetation Plan - based upon the appropriate requirements of Subsect	ion H of 19.15.17.13 NMAC						
Site Reclamation Plan - based upon the appropriate requirements of Substitution	section G of 19.15.17.13 NMAC						

19				
Operator Applicatio				
Thereby certify that the	information submitted with this application is true, accurate	irrate and complete to the	best of my knowledge and belief.	
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician	
Signature:	Constal Talana	Date:	12/22/2008	
e mail address:	crystal talova d conocophilly a con	Telephone:	505-326-9837	
20   OCD Assessed	7n	_		
	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative	Signature:		Approval Date:	
Title:				
		OCD Perm	it Number:	
21				
Closure Report (requ	ired within 60 days of closure completion); Substitute of the completion of the comp	ection K of 19 15 17 13 NMAC		
- иоминения, серетиот с	ire realitred to obtain an approved clasure plan neige a	a ismalamanaine	re activities and submitting the closure report. The closure	
	is been obtained and the closure activities have been co		e derivities and submitting the closure report. The closure Please do not complete this section of the form until an	
			Completion Date:	
		Citatre	Completion 178te:	
22 Closure Method:				
Waste Excavation	and Removal On-site Closure Method	П. н		
=	approved plan, please explain.	Alternative Closure N	fethod Waste Removal (Closed-loop systems only)	
	Provide India Inches Capitalis.			
23 Closure Report Reports	ng Wasta Damoual Clause Co. Charles on			
Instructions: Please iden	ng Waste Removal Closure For Closed-loop Systems tify the facility or facilities for where the liquids, drilli	That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only: 25 were disposed. Use attachment if more than two facilities	
		оқ зоны ала ағы сашт	zs were assposed. Use allachment if more than two facilities	
Disposal Facility Name		Disposal Facility P	ermit Number:	
Disposal Facility Name		Disposal Facility P	ermit Number:	
Yes iff yes plane	system operations and associated activities performed or demonstrate compliane to the items below)		be used for future service and opeartions?	
	_	No		
Site Reclamation (	areas which will not be used for future service and ope Photo Documentation)	rations:		
	d Cover Installation			
Re-vegetation App	lication Rates and Seeding Technique			
24				
Closure Report Atta	chment Checklist: Instructions: Each of the follow	ving items must be attach	ed to the closure report. Please indicate, by a check mark in	
			the state of the s	
Proof of Dood No	Notice (surface owner and division) stice (required for on-site closure)			
	site closures and temporary pits)			
	npling Analytical Results (if applicable)			
	ampling Analytical Results (if applicable)			j
	ampting Analytical Results (if applicable)  Name and Permit Number			
	nd Cover Installation			-
	plication Rates and Seeding Technique			
	(Photo Documentation)			
On-site Closure L	·	Longituda	El	
	- Land Control of the	Longitude:	NAD [ ] 1927 [ ] 1983	
3				
Operator Closure Certis	fication:			
hereby certify that the info	ormation and attachments submitted with this closure re-	port is ture, accurate and	complete to the best of my knowledge and belief. I also certify th	
se closure complies with al	l applicable closure requirements and conditions specif	fied in the approved clusti	re plan.	ut
ame (Print):		Title:		
***		- THE		
ignature:		Date:		
mail address:		Talanhar		
		Telephone:		

### New Mexico Office of the State Engineer POD Reports and Downloads

Township: 28N Range: 11W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic C All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help
WATER COLUMN REPORT 08/21/2008

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

	(quarter	s are	e big	gge	est	to	smallest)			Depth	Depth	Water (i	Ĺn
POD Number	Tws	Rng	Sec	q	q	Œ	Zone	x	Y	Well	Water	Column	
SJ_03193	28N	11W	07	3	4	3				80	35	45	
SJ 02916	28N	11W	07	3	4	4				98	70	28	

Record Count: 2

# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27N Range:	11W Sections:	
NAD27 X: Y:	Zone:	Search Radius:
County: Basin:	Numl	per: Suffix:
Owner Name: (First)	(Last) C1	Non-Domestic © Domestic © All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear Fo	orm iWATERS Menu	Help
(quarters are 1=NW (quarters are bigge		20/2008  Depth Depth Water (in

x

Y

Well

1102

650

Water

550

Column

552

Record Count:

POD Number

SJ 01787

SJ 00077

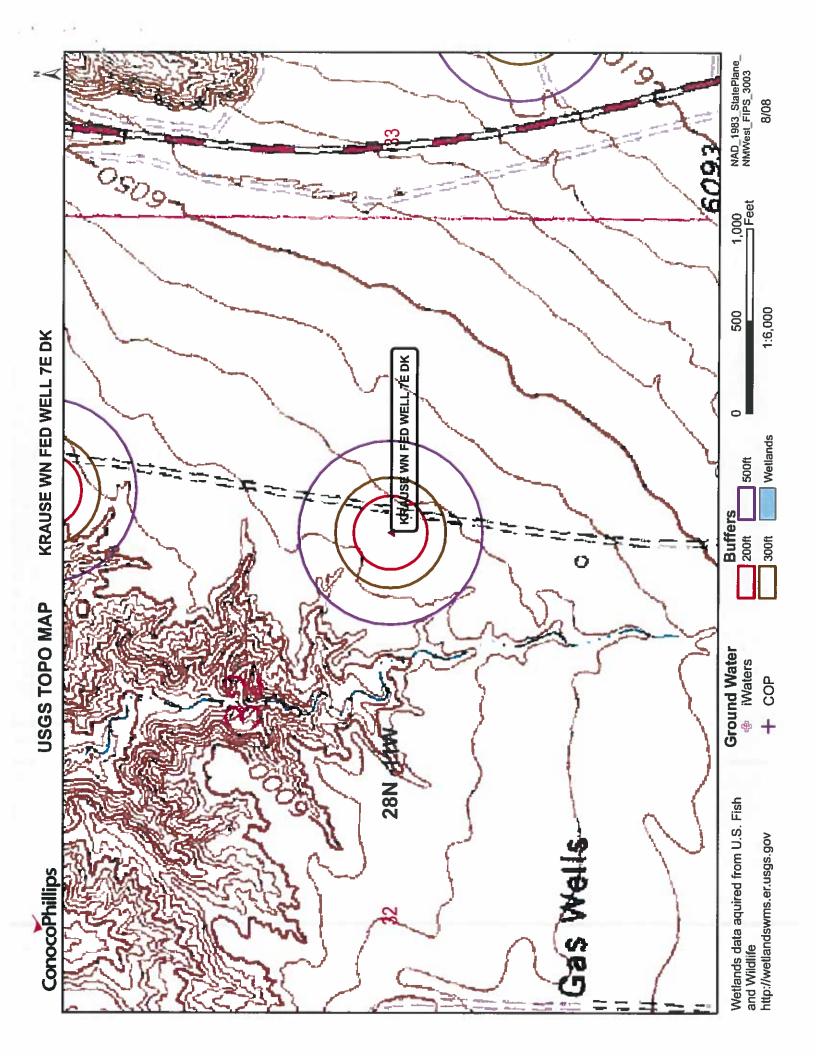
Tws Rng Secqqq

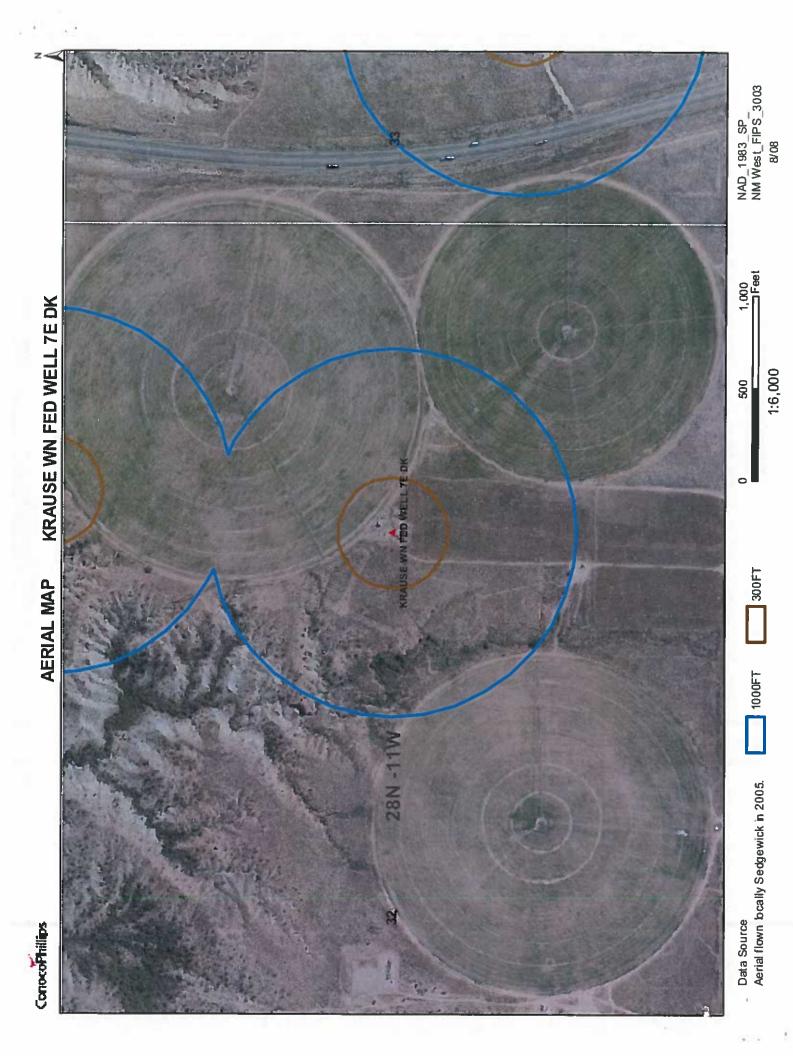
11W 07 2 2

11W 26 2 1 3

27N

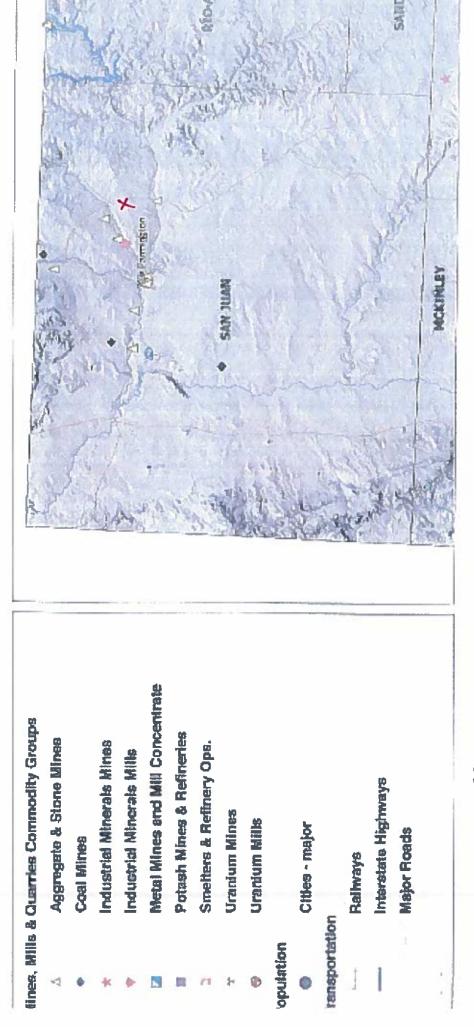
27N





# Mines, Mills and Quarries Web Map

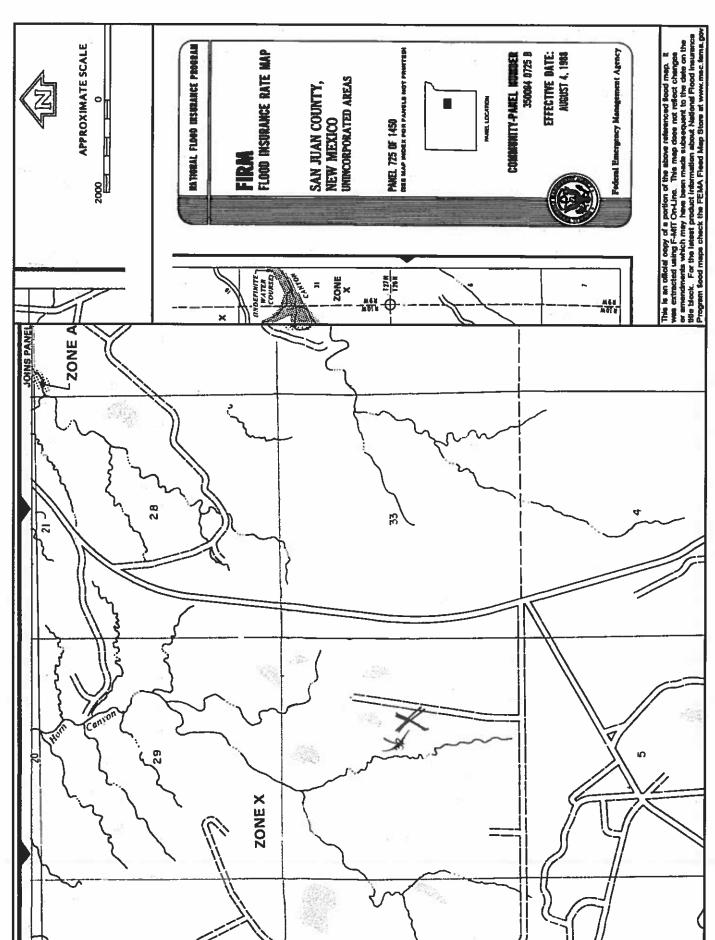
KRAUSE WN FED WELL 7E DK Unit Letter: , Section: 32, Town: 28N, Range: 11W







KRANSE WN FED WELL TO PE



### **KRAUSE WN FEDERAL 7E**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'KRAUSE WN FEDERAL 7E', which is located at 36.616531 degrees North latitude and 108.0233 degrees West longitude. This location is located on the Gallegos Trading Post 7.5' USGS topographic quadrangle. This location is in section 32 of Township 28 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 6.8 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 12.9 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 0.4 miles to the east. The location is on Tribal land and is 1,332 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1841 meters or 6038 feet above sea level and receives 10 inches of rain each year. The vegetation at this location is classified as Southern Colorado Plateau Sand Shrubland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 479 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 869 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 2,624 feet to the north. The nearest water body is 6,133 feet to the west. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 18,036 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,519 feet to the northeast. There is no wetland data available for this area. The slope at this location is 1 degrees to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Shiprock fine sandy loam, 0 to 2 percent slopes' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.3 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

### Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

### **Hydraulic Properties:**

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

### References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

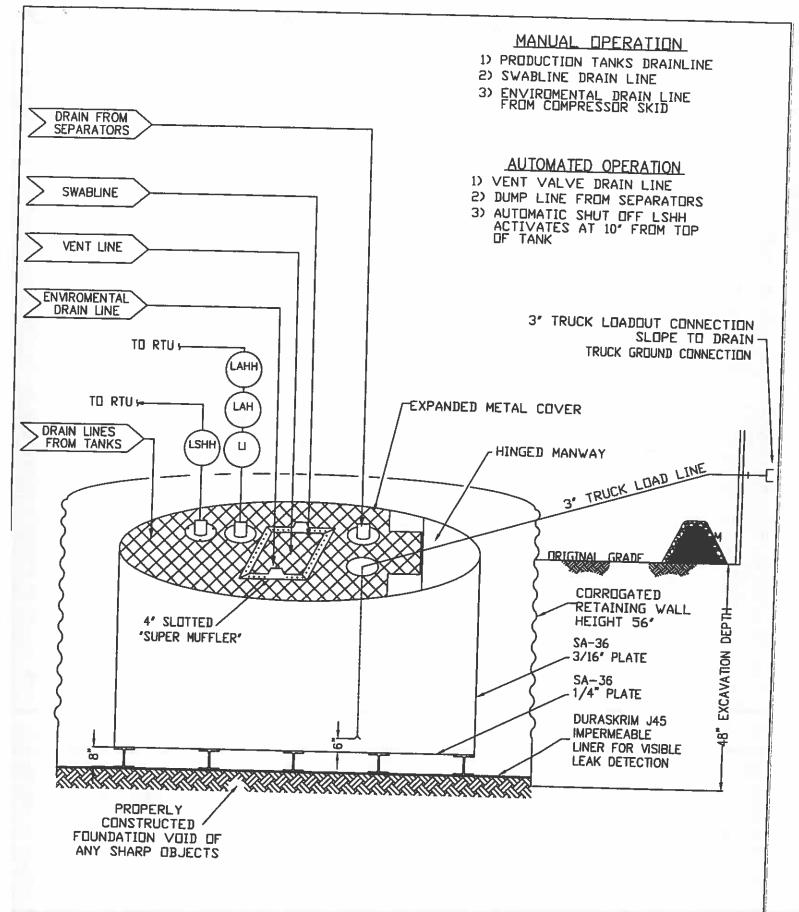
# ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

### General Plan:

- COPC will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- COPC signage will comply with 19.15.3.103 NMAC when COPC is the operator.
   If COPC is not the operator it will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. COPC will construct a screened, expanded metal covering, on the top of the BGT.
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. COPC has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the COPC MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from COPC's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the COPC document.



# ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK OPEN TOP GRAVITY FLOW TANK INTERNALLY COATED WITH 12-14 MILS AMERON AMERCOAT 385

# DURA-SKRIM®

# J30, J36 & J45

PROPERTIES	TEST METHOD	J	30BB	J3	688	J4	58 <b>8</b>	
	4	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages	
Appearance		Blad	:k/Black	Black	√Black		lack/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction	3	**Ext	rusion laminated	with encapsula	1 Table 1 Table 1			
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf ME 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-70° F						

MD = Machine Direction
DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX

800-635-3456



### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

# ConocoPhillips Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

### General Plan:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

# ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

### **General Requirements:**

- 1. COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- COPC will receive prior approval to 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. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze 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 0.2 mg/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 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. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7. 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 COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of COPC's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. COPC shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. 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 background thickness of topsoil, whichever is greater.
- 13. 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 belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice.

## **Burlington Resources /Conoco Phillips BGT REGISTRATION**

✓ Signed C-144 (Page 5 of C-144)
✓ Site Specific Hydrogeology
19.15.17.10 NMAC SITTING REQUIREMENTS
<ul> <li>✓ New Mexico Office of State Engineer attachment</li> <li>✓ USGS TOPO map</li> <li>✓ Aerial Map</li> <li>✓ Mines, Mills and Quarries Map</li> <li>✓ FIRM map (flood insurance rate map from Federal Emergency Agency)</li> </ul>
19.15.17.11 NMAC DESIGN PLAN CONTENTS
✓ Below Grade Tank Design and Construction Plan
19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN
19.15.17.13 NMAC CLOSURE PLAN
✓ Below Grade Tank Closure Plan
REGISTRATION DATE:
07/16/2015
NOTES: