Partment Trible Procession Trible Process		State of New Mexico Energy Minerals and Natural Reso	Durces Form C-July 21, 2
is characterized by the second s	REGISTE	Pepartment rvation Division	For temporary pits, closed-loop sytems, and below-grad tanks, submit to the appropriate NMOCD District Office.
2028 S. B. Francis Dr. Samo Fe, NM 87595 Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action:		in St. Plancis DI.	For permanent pits and exceptions submit to the Santa F
Proposed Alternative Method Permit or Closure Plan Application Type of action:	District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		
Type of action:		Pit, Closed-Loop System, Below-	Grade Tank, or
☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method ☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative requested to approval of this request dues not relieve the operator of the billing should operations result in pathetics of antifere water, ground water or the environment. Nor destapproval of this request dues nor relieve the operator of the billing is should operations result in pathetics of antifere water, ground water or the environment. Nor destapproval of this request dues nor relieve the operator of the billing is should operations result in pathetics of antifere water, ground water or determinent. Nor destapproval of this responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance. Operator: ConcocPhillips Company OGRID#: 217817 Operator: 3004510175 OCD Permit Number: JL or QUr?UT: B Section: 33 Township: 31N Range: 11W County: San Juan Surface Owner: ☐ Poderal X State Private Tribal Trists or Indian Allotment ☐ Pits: Subsection F or Gol (9:15.17.11 NMAC Trips of Operation: ☐ P&A	Propo	sed Alternative Method Permit or C	Closure Plan Application
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 regenerator of liability should operations result in publicits of authors was: ground water or the environment. Nor dest approval of this request does not relieve the operator of liability should operations result in publicits of authors was: ground water or the environment. Nor dest approval of this request does not relieve the operator of a tempositility to comply with any other applicable governmental autority rates. regulations or onlinaecs. Deferator: ConocoPhillips Company CoCRIDH: 217817 Addeferss: PO Box 4289, Farmington, NM 87499 Facility or well name: HEATON LS 6 API Number:	Type of action:	X Permit of a pit, closed-loop system, below-g	grade tank, or proposed alternative method
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 (Porm C-144) per individual pit, closed-loop system, below-grade tank or alternative regenerative method Please be advised that approval televe the operator of liability should operations reach in pollution of surface water, ground water or the environment. Nor des approval relieve the operator of its responsibility to comply with any other applicable governmenal autority's rules, regulations or ordinances. Operator: ConcoPhillips Company OGRID#: 217817 Vider: B Section: 33 Township: JIN Range: 11W County: Surface Owner: Federal State Private Tribal Trust or Indian Allotment Permanent Emergency Cavitation P&A Iner Seams: Welded Factory Other		Closure of a pit, closed-loop system, below-	-grade tank, or proposed alternative method
below-grade tank, or proposed alternative method Instructions: Please submit one application (Parm C-144) per individual pit, closed-loop system, below-grade tank or alternative req Press te advised that supposed of this request or failability submer supplicable governmental autority rules, regulations or ordinances. Operator: ConcoPhillips Company Address: PO Box 4239, Farmington, NM 87499 "acility or well name: HEATON LS 6 API Number: 3004510175 OCD Permit Number:			
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative req Please be ableded that approval of this request does not relieve the operation of liability abould operations result in pollution of surface water, egolations or ordinances. Operator: ConcooPhillips Company OGRID#: 217817 Address: PO Box 4289, Farmington, NM 87499 Gazellity or well name: HEATON LS 6 API Number: 3004510175 OCD Permit Number: JII. County: San Juan Center of Proposed Design: Latitude: 33. Township: 31N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.860447?N Longitude: -107.992519°W NAD: [X] 1927 Surface Owner: Feederal [X] State Private Tribal Trust or Indian Allotment 2 [Ett: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Bernancet [Welded] Factory Other volume: bbl Dimensions L x W x D 3 Closed-loop System: Subsection I of 19.15.17.11 NMAC Type of Operation: P&A Drilling a ne			
Please be advised that approval of this requese 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 is nile, regulations or ordinances. Operator: ConcooPhillips Company OGRID#: 217817 Videos PO Box 4289, Farmington, NM 87499 Pacifity or well name: HEATON LS 6 API Number: 3004510175 OCD Permit Number: ///. Or QUPQOT: B Section: 33 Township: 31N Range: 11W County: Center of Proposed Design: Latitude: 36.860447*N Longitude: -107.992519*W NAD: X] 1927 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment 2 PE: Subsection F or G of 19.15.17.11 NMAC	Instructions: Please submit one		
Address: PO Box 4289, Farmington, NM 87499 Facility or well name: HEATON LS 6 API Number: 3004510175 OCD Permit Number: OCD Permit Number: J/L or Qtr/Qtr: B Section: 33 Tor Qtr/Qtr: B Section: 33 Township: 31N Range: 11W County: San Juan Center of Proposed Design: Latitude:	Please be advised that approval	of this request does not relieve the operator of liability should ope	erations result in pollution of surface water, ground water or the
Facility or well name: HEATON LS 6 API Number: 3004510175 OCD Permit Number: J/L or Qtr/Qtr: B Section: 33 Township: 31N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.860447°N Longitude: -107.992519°W NAD: X 1927 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment 2 Pti: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A			OGRID#: 217817
API Number: 3004510175 OCD Permit Number: U/L or Qtr/Qtr: B Section: 33 Township: 31N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.860447?N Longitude: -107.992519°W NAD: X 1927 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment 2 Pfit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A ILDPE HDPE PVC Other String-Reinforced Liner type: Thickness mil LLDPE HDPE PVC Other 3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit notice of intent) 4 Drig Pad Above Ground Steel Tanks Haul-off Bins Other			
J/L or Qir/Qtr: B Section: 33 Township: 31N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.860447°N Longitude: -107.992519°W NAD: X 1927 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment 2 Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover 9 Permanent Emergency Cavitation P&A 1Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other 3 Closed-loop System: Subsection H of 19.15.17.11 NMAC xW x D x x D 3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit notice of intent) 4 Derying Pad Above Ground Steel Tanks Haul-off Bins Other			
Center of Proposed Design: Latitude: 36.860447°N Longitude: -107.992519°W NAD: X 1927 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment Phi: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Ualined 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 notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other			Number:
Surface Owner: Federal Image: State Private Tribal Trust or Indian Allotment Pett: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Utilined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D 3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit notice of intent) Dyping Pad Above Ground Steel Tanks Haul-off Bins Other			
2 Pti: Subsection F or G of 19.15.17.11 NMAC 7 Drilling Workover 1 Permanent Emergency 1 Lined Unlined Liner type: 1 String-Reinforced Iter Seams: Welded Factory 3 Closed-loop System: Subsection H of 19.15.17.11 NMAC 7 Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit notice of intent) 1 Drying Pad Above Ground Steel Tanks Haul-off Bins Other 2 Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD 2 Drying Pad Above Ground Steel Tanks Haul-off Bins Other			
Pf:: 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	Surface Owner: Federal	X State Private Tribal Trust of	r Indian Allotment
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 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	Permanent Emergency Lined Unlined I	Cavitation P&A Liner type: Thickness mil ULDP	
X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified		Drilling a new well Workover or Drilling (Ap notice of intent) bund Steel Tanks Haul-off Bins Other	
	Lined Unlined Lin	Factory Other	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Lined Unlined Lin Liner Seams: Welded I X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak o Visible sidewalls and liner	h I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal detection X Visible sidewalls, liner, 6-inch lift a Visible sidewalls only Other	
Form C-144 Oil Conservation Division Page	Lined Unlined Link Liner Seams: Welded Indicators Wel	h I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal detection X Visible sidewalls, liner, 6-inch lift a Visible sidewalls only Other mil HDPE PVC X Oth	ner Unspecified

6 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Cham link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Cham link, six feet in height, two strands of barbed wire evenly spaced between one and four feet Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire. 7						
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) 8 Signs: Subsection C of 19.15.17.11 NMAC I 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						
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
10 <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.						
 Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 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). Topographic map; Visual inspection (certification) of the proposed site 	Yes Yes	X No X No				
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes	XNo				
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering 	Yes XNA					
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	XNo				
 adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. 	Yes	X No X No				
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100 user floadelation 	Yes	X No				
Within a 100-year floodplain - FEMA map	Yes Yes	XNo				

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Visco Circle Concernents
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including 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.
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)
15 <u>Waste Excavation and Removal Closure Plan Checklist:</u> (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. V Protocols and Procedures - based upon the appropriate requirements of 10, 15, 17, 13, NMAC
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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
 X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17. Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill entrings. Use attachment if i	13,D NMAC) more than two facilities
are required.	
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be use Yes (If yes, please provide the information No	ed for future service and operations?
Required for impacted areas which will not be used for future service and operations:	
 Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.1: Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC 	5.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material a certain sung criteria may require administrative approval from the appropriate district office or may be considered an exception which must be for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance	submitted to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.	
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or play (measured from the ordinary high-water mark).	a 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 existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial phöto: satellite image	Yes No
	Yes No
 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock w purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	vatering
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	adopted Yes No
Within 500 feet of a wetland	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	Yes No
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area.	Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Socie Topographic map 	ety:
Within a 100-year floodplain. - FEMA map	Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached	to the closure plan. Please indicate,
by a check mark in the box, that the documents are attached.	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requi	rements of 19.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17	12 NIMAC
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	TO INMAC
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure s 	standards cannot be achieved
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	Sandarus Cannot DE achieveu)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

1 B	
19 Operator Application C	antification.
	refunctions submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	
Signature:	Cingatal Jappa Date: 12/22/2008
e-mail address:	crystal taioya @ conocophillips gom F Telephone: 505-326-9837
20	
OCD Approval: Pe OCD Representative Sig	ermit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
Title:	OCD Permit Number:
Instructions: Operators are a report is required to be subm	ed within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure nitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an been obtained and the closure activities have been completed.
	Closure Completion Date:
22 Clause Matheda	
Closure Method:	
Waste Excavation an	
If different from app	proved plan, please explain.
23 Closure Report Regarding	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
were utilized.	y the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop syst	tem operations and associated activities performed on or in areas that will not be used for future service and opeartions?
	emonstrate complilane to the items below)
Required for impacted ar	reas which will not be used for future service and operations:
Site Reclamation (Ph	noto Documentation)
Soil Backfilling and	Cover Installation
Re-vegetation Applic	cation Rates and Seeding Technique
24 Closure Report Attac	hment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
the box, that the documen	ints are attached. Notice (surface owner and division)
=	ice (required for on-site closure)
=	te closures and temporary pits)
7	
8	pling Analytical Results (if applicable)
=	mpling Analytical Results (if applicable)
	ame and Permit Number
Soil Backfilling and	
	lication Rates and Seeding Technique
	Photo Documentation)
On-site Closure Loc	cation: Latitude: Longitude: NAD 1927 1983
5	
Operator Closure Certific	ication:
hereby certify that the inform	mation and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that applicable closure requirements and conditions specified in the approved closure plan.
ame (Print):	Title:
ignature:	Date:
Signature:	Date:

					fice of the S orts and Do			neer		
	Town	iship: 31N	Range:	11W	Sections:		agan ta manang kanang sana kan	nn fa de foi de la formancia en estadore antequale — se	nin feren far er er en	i ang a san
	NAD27	X:	Y:		Zone:			Search Radiu	s:	
County:		Bas	in:			1	Num	ber:	Suffix:	
Owner Na	me: (Firs	st)		(Last)			ា	Non-Domestic	O Domestic	Al
PC	D / Surfac	e Data Repo	rt)	Avg	Depth to Wa	ter Re	port	Wate	er Column Report	

WATER COLUMN REPORT 08/20/2008

	(quarter	s are 1:	=NW 2=NE	3=SW 4=SE)					
	(quarter	s are bi	iggest to	smallest)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng Sec	c ɗ ɗ ɗ	Zone	x	Y	Well	Water	Column	
SJ 02395	31N	11W 13	1 1 3				95	35	60	
SJ 01640	31N	11W 13	2 4				32	7	25	
SJ 01551	31N	11W 13	24				64	42	22	
SJ 00560	31N	11W 13	2 4				39	25	14	
SJ 01729	31N	11W 13	24				48	28	20	
SJ 01541	31N	11W 13	3				52	30	22	
SJ 01539	31N	11W 13	3				52	30	22	
SJ 00946	31N	11W 13	3 3				135	100	35	
SJ 01540	31N	11W 13	4				52	30	22	
SJ 01879	31N	11W 13	4				26	8	18	
SJ 01801	31N	11W 13	4				22	15	7	
SJ 03413	31N	11W 13	4 2	s			60			
SJ 03412	31N	11W 13	42				60			
SJ 03736 POD1	31N	11W 13	4 2 1				19	6	13	
SJ 02495	31N	11W 13	4 2 1				28	12	16	
SJ 03623	31N	11W 13	4 2 1				30	16	14	
SJ 03264	31N	11W 13	4 2 2				20	11	9	
SJ 03124	31N	11W 13	4 2 4				20	5	15	
SJ 03125	31N	11W 13	4 2 4				20	5	15	
SJ 03712 POD1	31N	11W 13	4 3 1				19	11	8	
SJ 03018	31N	11W 13	434				20	8	12	
SJ 03670	31N	11W 13	4 3 4				26	10	16	
SJ 01538	31N	11W 13	4 4				52	30	22	
SJ 01683		11W 13	4 4				45	25	20	
SJ 01731	31N	11W 13	4 4				43	25	18	
SJ 01644	31N	11W 13	4 4				23	6	17	
SJ 02149	31N	11W 13	4 4				35			
SJ 01645	31N	11W 13	4 4				22	6	16	
SJ 01767	31N	11W 13	4 4				42	18	24	
SJ 01730	31N	11W 13	4 4				40	2.4	1.6	
SJ 01699	31N	11W 13	4 4				42	12	30	
SJ 01609	31N	11W 13	4 4				40	18	22	

.

SJ 01537	310	I 11W 13	44				52	2.0	
SJ 01542	- 31N	I 11W 13	4 4				24	28	24
SJ 01663	31N	I 11W 13	4 4				4 m		
SJ 02093	31N	11W 13		W	470700	2143800	45	25	20
SJ 03440	31N	11W 13		-		2140000	40	20	20
SJ 03084	31N		4 4 2				20	6	14
SJ 03085	31N		442	•			19	11	8
SJ 02801	31N		4 4 3				1.8	8	10
SJ 03064	31N		4 4 3				36	5	31
SJ 01142	31N		4 4 4			-3	45		
SJ 02838	31N	11W 13	444				30	8	22
SJ 02855	31N	11W 13	444				38	10	28
SJ 01173	31N	11W 13	4 4 4				31		
SJ 02289	31N	11W 13					46	28	18
SJ 03458	31N	11W 19	_				45	16	29
SJ 02978	31N	11W 19					140		
SJ 01817	31N	11W 23	2 1 3 2 4				800		
SJ 02129	31N	11W 23					65	20	45
SJ 02161	31N		2 4				72	35	37
SJ 01600	- 51.4m	11W 23	3 4				40	25	15
SJ 02124	31N 31N	11W 24	1				30	6	24
SJ 03755 POD1		11W 24	1 1				55	40	15
SJ 03695 POD1	31N	11W 24	14		269112	2142037	27	7	20
SJ 03695 POD1	31N 31N	11W 24	142				25	13	12
SJ 03696		11W 24	142				25	13	12
SJ 03695	31N	11W 24	1 4 2				24	12	12
SJ 03696 POD1	31N	11W 24	142				25	13	12
SJ 01559	_ 31N	11W 24	1 4 2				24	12	12
SJ 01744	31N	11W 24	2				50	27	23
SJ 01375	31N	11W 24	2 2				44	20	24
SJ 01986 S	31N	11W 24	2 2				30	11	19
SJ 01986	31N	11W 24	2 2 2				45	30	15
SJ 00555	_ 31N	11W 24	222				38	21	17
SJ 03408	31N	11W 24	2 2 4				60	19	41
SJ 02928	31N 31N	11W 24	2 3 1				26	11	15
SJ 02924	31N	11W 24	232				70		
SJ 02846	31N	11W 24	232				33	15	18
SJ 02888	31N	11W 24 11W 24	2 3 3				45	18	27
SJ 03650	31N		233				65		
SJ 00555 X	31N	11W 24 11W 24	2 3 3				32	15	17
SJ 02839	31N	11W 24	2 4 · · · 2 4 1				5.8	39	19
SJ 03707 POD1	31N	11W 24	2 4 1 2 4 1				55	19	36
SJ 02758	31N	11W 24	2 4 2				60	40	20
SJ 02791	31N	11W 24	2 4 2				69	51	18
SJ 00379	31N	11W 24	2 4 4				74	54	20
SJ 00365	31N	11W 24	2 4 4				65	40	25
SJ 01670	31N	11W 24	3				71	40	31
SJ 00287	31N	11W 24	3 2 4				45	27	18
SJ 01553	31N	11W 24	3 4				38	.6	32
SJ 02171	31N	11W 24	3 4 3				44	35	9
SJ 01366	31N	11W 24	4 1				45	25	20
SJ 02644	31N		4 1 4				30	11	19
SJ 00913			4 1 4 4 3				45	18	27
SJ 01405			4 3 4 3				81	55	26
SJ 01455							30	9	21
SJ 01047			434				101	6.6	35
SJ 00405			434				205	70	135
SJ 03438			4 3 4				69	42	27
SJ 03045			44				40		
	JTN	11W 25	144				200		

SJ 02499	31N	11W 25	2 1 1		66	45	21
SJ 03198	31N	11W 25	3 3 1		600	100	500
SJ 02834	31N	11W 25	3 3 3		200	160	40
SJ 03450	31N	11W 25	3 3 3		144	95	49
SJ 03126	31N	11W 26	1 1 1		41	21	20
SJ 01233	31N	11W 26	1 4		49	27	20
SJ 03158	31N	11W 26	1 4 2				
SJ 00675	31N	11W 26	1 4 3		280	25	255
SJ 02887	31N	11W 26			36	22	14
				1	51	2.8	23
SJ 02898	31N	11W 26	2 1 4		50		
SJ 01789	31N	11W 26	3 1		29	12	17
SJ 00705	31N	11W 26	3 1 1		18	8	10
SJ 00371	31N	11W 26	3 1 2		29	9	20
SJ 03323	31N	11W 26	3 1 4		30	6	24
SJ 00363	31N	11W 26	3 1 4		25	5	20
SJ 01545 X	31N	11W 26	3 3		27	10	17
SJ 00926	31N	11W 26	4 1		62	32	30
SJ 01519	31N	11W 26	4 2		69	47	2.2
SJ 01620	31N	11W 26	4 2		67	26	41
SJ 00610	31N	11W 26	4 2		80	50	30
SJ 02011	31N	11W 26	4 2		55	38	17
SJ 01628	31N	11W 26	4 2		66	25	41
SJ 03697 POD1	31N	11W 26	4 2 3		80	50	30
SJ 00562	31N	11W 26	4 3		40	20	20
SJ 00561	31N	11W 26	4 3		38	20	18
SJ 01042	31N	11W 26	4 4		100	30	70
SJ 00494	31N	11W 26	4 4		88	60	
SJ 02482	31N	11W 27	4 1 2		75	55	28
SJ 03600	31N	11W 27	4 2 1				20
SJ 03540	31N	11W 27	4 2 1		51	39	12
SJ 03772 POD1	31N	11W 27		260220 2125517	40	21	19
SJ 02914	31N	11W 27		268239 2135717	41	30	11
			4 2 3		25	15	10
SJ 02468	31N	11W 27	4 2 3		49	30	19
SJ 02656	31N	11W 27	4 2 4		21	9	12
SJ 02871	31N	11W 27	4 2 4		22	11	11
SJ 02215	31N	11W 27	4 3		54	23	31
SJ 02676	31N	11W 27	4 3		19	7	12
SJ 03247	31N	11W 27	4 3 1		70		
SJ 03505	31N	11W 27	4 3 3		50	14	3.6
SJ 02549	31N	11W 27	4 3 3		49	30	19
SJ 02853	31N	11W 27	4 3 4		22	6	16
SJ 02984	31N	11W 27	4 4 1		20		
SJ 03181	31N	11W 27	4 4 1		19	10	9
SJ 01884	31N	11W 30	4 2 3		71	30	41
SJ 01739	31N	11W 30	4 2 4		98	30	68
SJ 01154	31N	11W 30	4 2 4		190	150	40
SJ 01834	31N	11W 30	4 2 4		103	30	73
SJ 01797	31N	11W 30	4 4		100	40	60
SJ 01396	31N	11W 30	4 4 1		80	57	23
SJ 00970	31N	11W 30	4 4 4		110	80	30
SJ 01811	31N	11W 31	2 2		89	50	39
SJ 02994	31N	11W 33	4 3 2		300	200	100
SJ 02993	31N	11W 33	4 3 2		280	160	-120
SJ 01137	31N	11W 33	4 4 4		37	19	18
SJ 02277	31N	11W 34	1 2		16	7	9
SJ 02167	31N	11W 34	1 4		83	69	14
SJ 01533	31N	11W 34	1 4		58	40	18
SJ 01251	31N	11W 34	1 4		79	40 65	
SJ 03211	31N	11W 34	1 4 1				14
PA AAWT	TN	TTFA 24	T 4 T		24	14	10

.

• . • •

• •

•					
SJ 01125	31N	11W 34	1 4 2		
SJ 01657	31N	11W 34	2		
SJ 01675	31N	11W 34	2		
SJ 00632	31N	11W 34	2		
SJ 01656	31N	11W 34	2		
SJ 00656	31N	1.1.W 34	2		
SJ 00631	31N	11W 34	2		
SJ 03448	31N	11W 34	2 1		
SJ 01267	31N	11W 34	2 1		
SJ 01618	31N	11W 34	2 1		
SJ 01840	31N	11W 34	2 1 1		
SJ 03316	3.1N	11W 34	2 1 1		
SJ 00660	31N	11W 34	2 1 1		
SJ 01768	31N	11W 34	2 2		
SJ 01721 SJ 03172	31N	11W 34	2 2		
SJ 03047	31N	11W 34	2 2 2		
GT 00110	31N	11W 34	2 2 4		
QT 00110		11W 34	2 3		
	31N	11W 34	2 3		
07 00661	24	11W 34	2 3		
SJ 00001 SJ 02972	31N	11W 34 11W 34	2 3 1 2 3 4		
SJ 03107	31N	11W 34 11W 34	2 3 4 2 4 1		
SJ 03106	31N	11W 34 11W 34	2 4 1		
SJ 03183	31N	11W 34 11W 34	2 4 4		
SJ 03780 POD1	31N	11W 34	3 1 2	267922	212
SJ 02859	31N	11W 34	3 1 4	201922	213
SJ 02967	31N	11W 34	3 2 3		
SJ 02856	31N	11W 34	3 2 3		
SJ 02852	31N	11W 34	3 2 3		
SJ 03065	31N	11W 34	3 2 3		
SJ 03025	31N	11W 34	3 2 3		
SJ 03014	31N	11W 34	3 2 4		
SJ 03002	31N	11W 34	3 2 4		
SJ 02861	31N	11W 34	3 3 1		
SJ 03220	31N	11W 34	3 3 1		
SJ 03042	31N	11W 34	3 3 2		
SJ 03710 POD1	31N	11W 34	3 3 2		
SJ 03048 SJ 02857	31N	11W 34	3 3 4		
77 02400	31N	11W 34	341.		
an	31N 31N	11W 34 11W 34	3 4 2		
SJ 03631 SJ 03493	31N	11W 34	3 4 2 3 4 2		
SJ 03357	31N	11W 34	3 4 2		
SJ 03260	31N	11W 34	3 4 4		
SJ 03609	31N	11W 34	3 4 4		
SJ 01608	31N	11W 34	4		
SJ 03720 POD1	31N	11W 34	4 1 3		
SJ 03497	31N	11W 34	4 1 4		
SJ 03402	3.1N	11W 34	4 1 4		
SJ 03377	31N	11W 34	4 2 4		
SJ 03016	31N	11W 34	4 3 1		
	31N	11W 34	4 3 1		
SJ 02966	31N	11W 34	4 3 3		
SJ 00985	31N	11W 34	4 4		
SJ 02827	31N	11W 35	1 1 2		
SJ 03371	31N	11W 35	1 1 3		
SJ 02902	31N	11W 35	1 1 3		
SJ 02897	31N	11W 35	1 3 1		

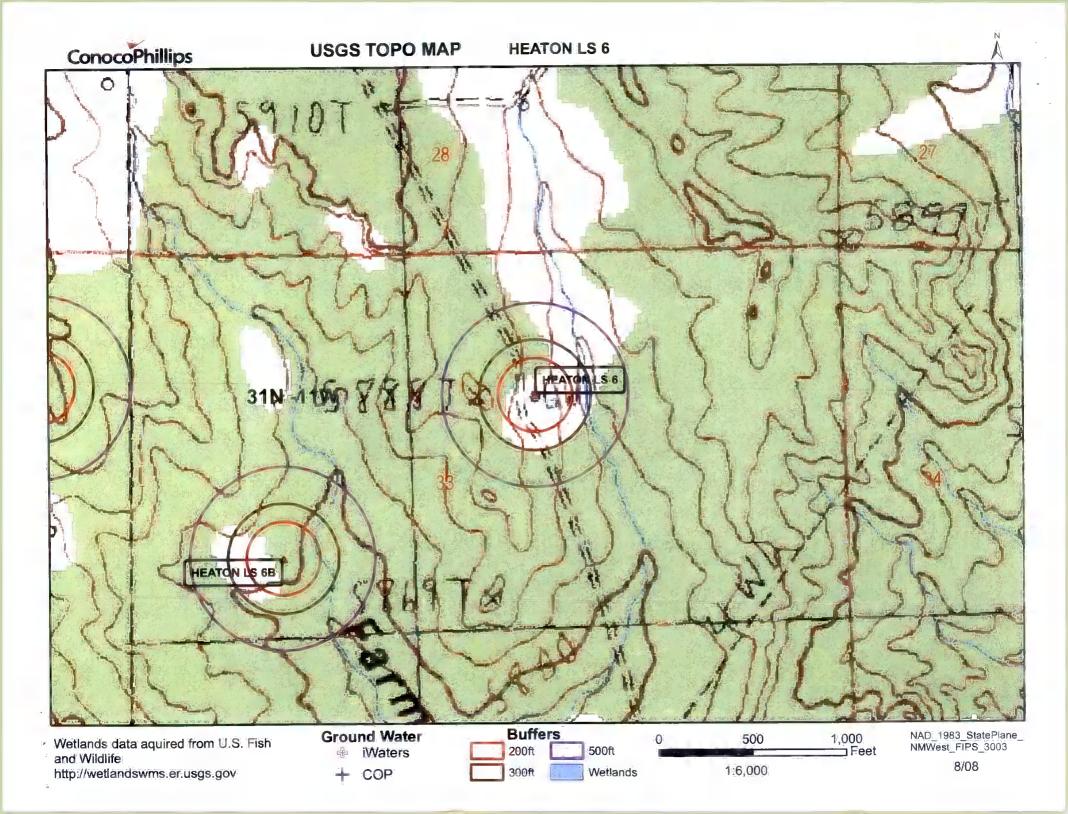
	59 20 33 25 20 30 41 65 28 65 30 50 20 22 19 19 11 12 33 52 15 18 25	42 6 7 6 8 11 21 45 8 25 10 30 6 10 7 6 3 4 11 32 5 8	1.7 14 26 18 14 22 19 20 20 20 20 20 20 20 20 20 20 20 20 20
30341	19 28 22 20 24 23 22 22 30 22	6 12 6 5 6 7 7 5 5	13 16 15 18 16 15 17 25
	21 20 23 20 21 23 30	7 6 4 4 6	14 14 17 16 17 17
	27 25 22 41 27 48 21 30	6 15 6 3 6 17 6 10	21 10 16 38 21 31 15 20
	25 20	2	18
	35 25 48 40 60	3 20 16	· 22 28 24
	21 19 17	5 5 6	16 14 11

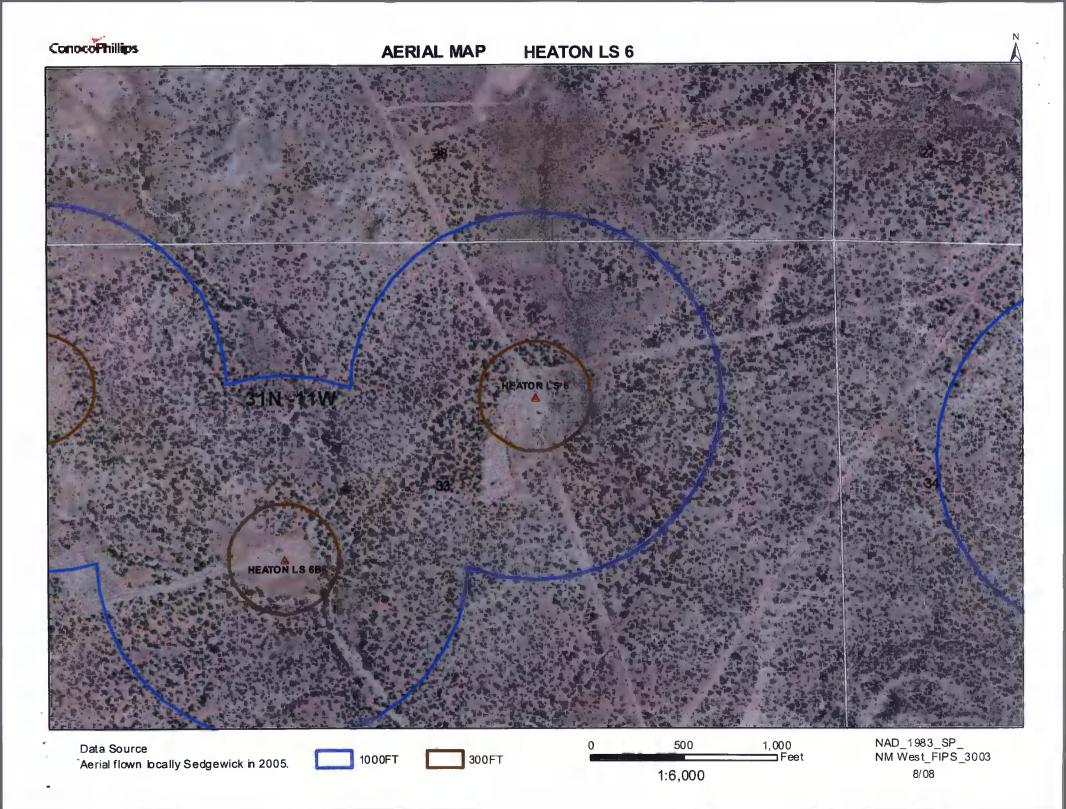
http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

Page	5	of	,
------	---	----	---

a									
SJ 00333	31N	11W 35	1 3	4			30	6	
SJ 03760 POD1	31N	11W 35	1 4	1	268465	2130772	43	12	
SJ 03543	31N	11W 35	1 4	4			61	30	
SJ 01144	31N	11W 35	1 4	4			55	30	
SJ 01319	31N	11.W 35	2 2	2				155	
SJ 00185	3.1N	11W 35	2 3				54		
SJ 03676	31N	11W 35	2 3	1			52	19	
SJ 03560	31N	11W 35	23	2			62	32	
SJ 03165	31N	11W 35	24	Ą			2.0		
SJ 03166	31N	11W 35	2 4	4		4	20		
SJ 00983	31N	11W 35	3				110	70	
SJ 00939	31N	11W 35	3				60	30	
SJ 00940	31N	11W 35	3 1				64	15	
SJ 01580	31N	11W 35	3 1	1			65	30	
SJ 02932	31N	11W 35	3 1	2			27	14	
SJ 02933	31N	11W 35	3 1	2			37	24	
SJ 03574	31N	11W 35	3 1	4			100		
SJ 00591	31N	11W 35	3 1	4			83	54	
SJ 00939 1	31N	11W 35	3 2				60	30	
SJ 00713	31N	11W 35	4 2				37	19	

Record Count: 229

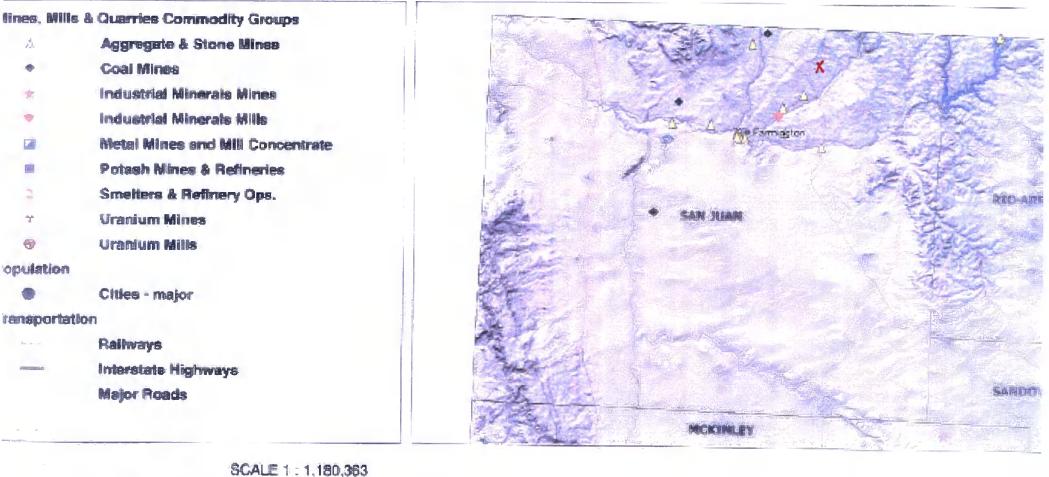




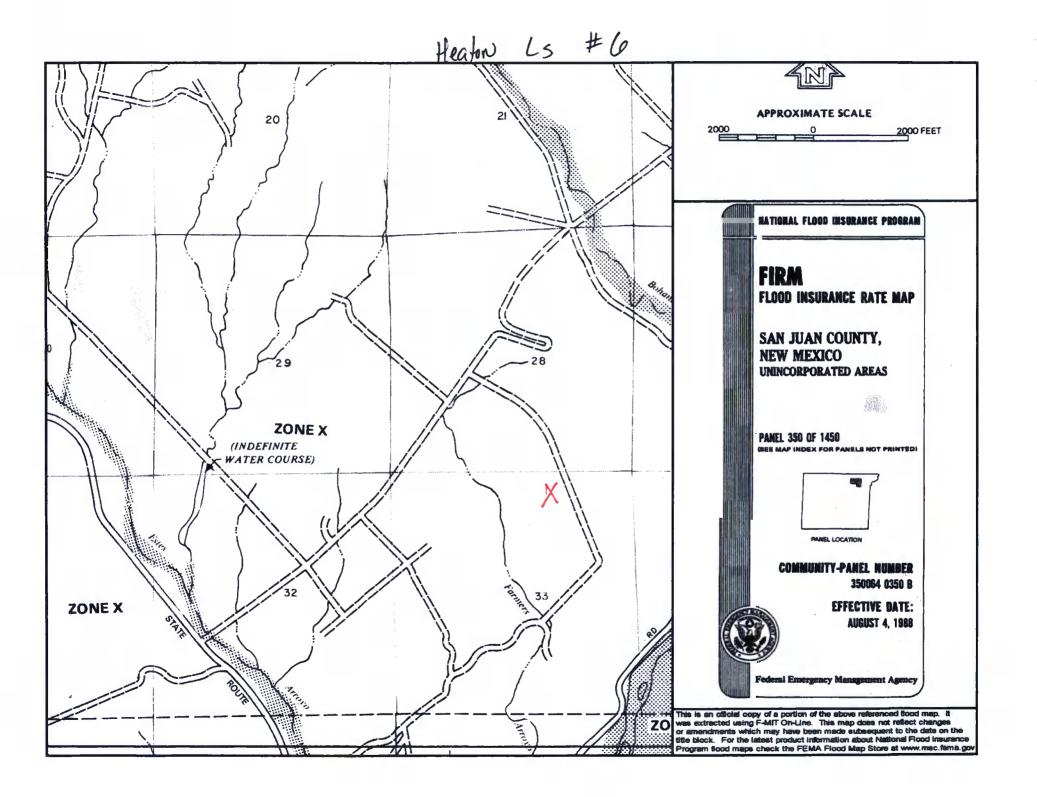
Mines, Mills and Quarries Web Map

HEATON LS 6

Unit Letter: B, Section: 33, Town: 031N, Range: 011W







HEATON LS6

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HEATON LS 6', which is located at 36.860447 degrees North latitude and 107.992519 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 33 of Township 31 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 Aztec, located 2.7 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 14.7 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 1.4 miles to the southeast. The location is on BLM land and is 1,116 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1783 meters or 5848 feet above sea level and receives 11.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 126 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 69 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 2,783 feet to the northeast. The nearest water body is named Farmer Tank and is 3,457 feet to the northwest. It is classified by the USGS as an intermittent lake and is 2.7 acres in size. The nearest spring is 22,843 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 3,211 feet to the east. The nearest wetland is a 1.1 acre other located 3,452 feet to the northwest. The slope at this location is 1 degree to the southwest 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 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 9.0 miles to the northeast 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, eastcentral 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

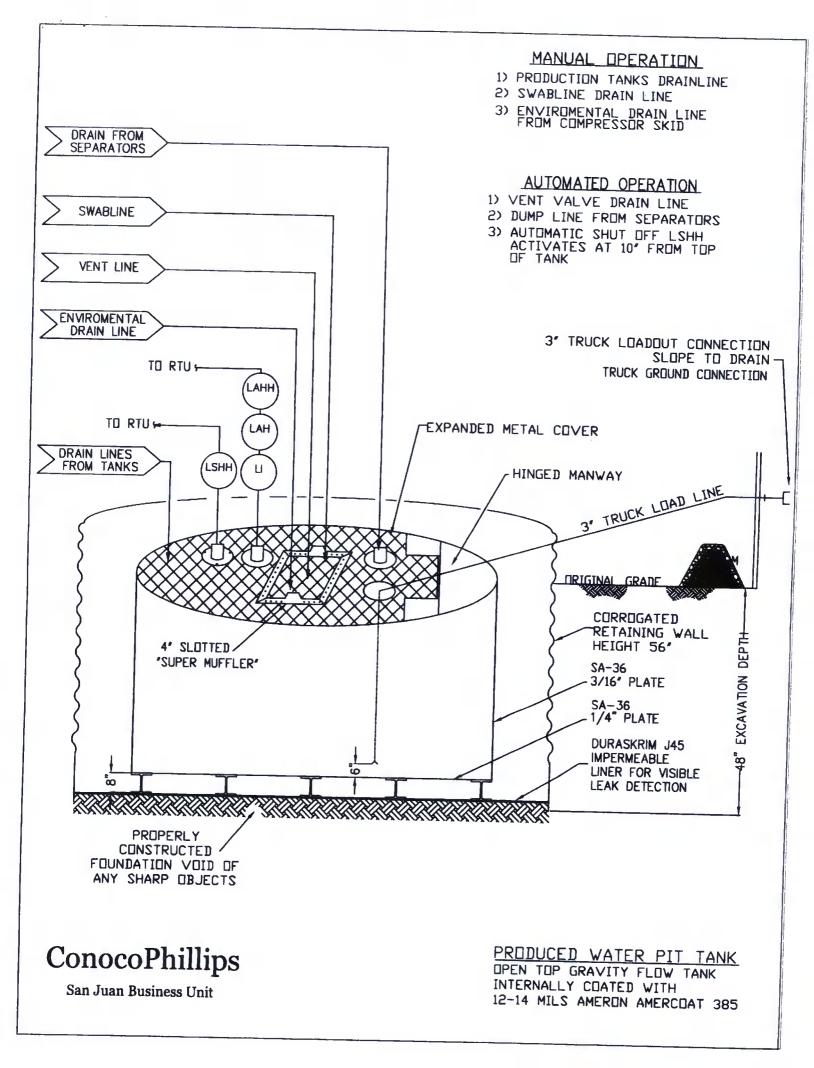
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to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

General Plan:

.

- 1. 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.
- 2. 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.



PROPERTIES TEST METHOD J30BB J36BB **J45BB** Min. Roll Typical Roll Min. Roll **Typical Roll** Min. Roll **Typical Roll** Averages Averages Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs 151 lbs 168 lbs ASTM D 5261 189 lbs 210 lbs (oz/vd²) (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion **ASTM D 413** 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 88 lbf MD 110 lbf MD 1" Tensile Strength 90 lbf MD 113 lbf MD ASTM D 7003 110 lbf MD 138 lbf MD 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD 750 MD 550 MD **ASTM D 7003** 750 MD 550 MD 750 MD Break % (Film Break) 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD 20 MD **ASTM D 7003** 30 MD 20 MD 36 MD Peak % (Scrim Break) 20 DD 33 DD 20 DD 31DD 20 DD 36 DD 75 lbf MD 97 lbf MD 75 lbf MD Tongue Tear Strength 104 lbf MD 100 lbf MD ASTM D 5884 117 Ibf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD 180 lbf MD 218 lbf MD Grab Tensile 180 lbf MD 222 lbf MD ASTM D 7004 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD 120 lbf MD 146 lbf MD 130 lbf MD Trapezoid Tear **ASTM D 4533** 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD * Dimensional Stability

< 0.5

64 ibf

180° F

-70° F

R

MD = Machine Direction DD = Diagonal Directions

Puncture Resistance

Maximum Use Temperature

Minimum Use Temperature

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

<1

65 lbf

180° F

-70° F

<0.5

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

<1

50 lbf

180° F

-70° F

**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

Sioux Falls, South Dakota

SALES OFFICE

<1

80 lbf

180° F

-70° F

< 0.5

99 lbf

180° F

-70° F

30, J36 8, J4

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX 800-635-3456





PLANT LOCATION

ASTM D 1204

ASTM D 4833

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.

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 multi-skilled 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:

- 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 of 19.15.17.11 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.
- 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.
- 3. 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.
- 4. 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 50 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.
- 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 (un-impacted) 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 below-grade 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