5 ' r <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II	State of New Mexico Energy Minerals and Natural Resources Department	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade				
District II 1301 W, Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztee, NM 87410 District IV	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	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.				
1220 S. St. Francis Dr., Santa Fe, NM 87505	Charles Card	a Tonk or				
Bronoce	At Closed-Loop System, Below-Grad	re Plan Application				
rioposo	TAtternative Method Fernit of Closu					
Type of action:	X Permit of a pit, closed-loop system, below-grade t	ank, or proposed alternative method				
. L		talk, or proposed alertative method				
Ĺ	Closure plan only submitted for an existing permi	tted or non-permitted pit, closed-loop system,				
L	below-grade tank, or proposed alternative method					
Instructions: Please submit one app	plication (Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request				
Please be advised that approval of t	his request does not relieve the operator of liability should operations to be operations of its responsibility to comply with any other applicable	result in pollution of surface water, ground water or the povernmental authority's rules, regulations or ordinances.				
	e the operation of its responsibility to comply with duy of its approach					
Operator: Burlington Resources Oil	& Gas Company, LP	OGRID#: <u>14538</u>				
Address: PO Box 4289, Farmington	, NM 87499					
Facility or well name: PIPKIN 1						
API Number: 30	04506718 OCD Permit Number	er:				
U/L or Qtr/Qtr:A Section	a: <u>8</u> Township: <u>27N</u> Range:	10W County: San Juan				
Center of Proposed Design: Latitude:	36.59422°N Longitude:	-107.91257°W NAD: X 1927 1983				
Surface Owner: Federal	State X Private Tribal Trust or India	n Allotment				
Pit: Subsection F or G of 19.15.17. Temporary: Drilling Work Permanent Emergency Ca	11 NMAC over vitation P&A					
Lined Unlined Lin	er type: Thickness mil LLDPE	HDPE PVC Other				
Liner Seams: Welded Fac	tory Other Volume:	bbi Dimensions L x W x D				
³ <u>Closed-loop System:</u> Subsection Type of Operation: P&A	n H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies t notice of intent)	o activities which require prior approval of a permit or				
Drying Pad Above Groun Lined Unlined Liner Liner Seams: Welded Fac	d Steel Tanks Haul-off Bins Other type: Thickness mil LLDPE	HDPE PVD Other				
Volume: <u>120</u> bb	I Type of fluid: Produced Water					
Tank Construction material:	Metal	· · · · · · · · · · · · · · · · · · ·				
Secondary containment with leak de	tection [X] Visible sidewalls, liner, 6-inch lift and au	tomatic overflow shut-off				
Visible sidewalls and liner Visible sidewalls only Other						
5 Altomative Methods						
Alternative wiethod:						
Submittal of an exception request is req	uired. Exceptions must be submitted to the Santa Fe Envir	ronmental Bureau office for consideration of approval.				
		D 1 of 5				

ν · · · · · · · · · · · · · · · · · · ·		1				
Forcing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)						
Characteristic for in bailet two strands of backed wire at two (Reavired if located within 1000 leet of a permanent residence, school, hospital, institution or church)						
Chain hok, six feet in height, two strands of barbed wire evenly spaced between one and four feet						
X 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						
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						
9						
Administrative Approvals and Exceptions:						
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.						
Please check a box if one or more of the following is requested, if not leave blank:	ideration of an	proval				
[X] Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Pe Univiolimental Pareau office for Const (Fencing/BGT Liner)	ucration or app					
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	ļ					
Instructions: The applicant must demonstrate compliance for each siling criteria below in the application. Recommendations of acceptable	ł					
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 paus 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 - 1WATERS database search; USUS; Data obtained from hearby wears		V No.				
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).		ANO				
- Topographic map; Visual inspection (certification) of the proposed site						
Within 300 feet from a normanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	XNo				
application.		_				
(Applies to temporary, emergency, or ruvitation pits and below-grade tanks)						
- Visual inspection (certification) of the proposed site; Acrial photo; Satellite image	Í	_				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No				
(Applied to permanent pits)	XNA					
- 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 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				
- 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						
- White contribution of vertication from the mane party, white approval solating ton the mane party	Yes	XNo				
- 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				
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division		V N				
Within an unstable area.		E NO				
- Engineering measures incorporated into the design; two bureau of Geology & Willeran Resources, OSOS, two debiogram Society: Topographic map						
Within a 100-year floodplain	Yes	XNo				
- FEMA map		-				

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Interactions: 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
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate tenuirements 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
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the hoy, that the documents are attached.</i> Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
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 (Plusse 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 AP!
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 (MAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Cartified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: hased 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
Eroston Control Plan Cleaver Plan Decime Plan DecimPlan Decime Plan Decime Plan D
14 Pronosed Closure: 19151713 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
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
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 bay, 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)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tan</u> Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids are reaared.	ks or Haul-off Bins Only: (19.15.17.13.D NMAC) and drill cuttings. Use attachment if more than two facilities	
Disposal Facility Name: Disp	posal Facility Permit #:	
Disposal Facility Name: Disp	posal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occ	ur on or in areas that will not be used for future service and op	erations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate re- Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	quirements of Subsection H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC on G of 19.15.17.13 NMAC	
47 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance on the closure plan. Recom certain siting orderia may require administrative approval from the appropriate district office or may for consideration of approval. Justifications and/or demonstrations of equivalency are required. Ple	mendations of acceptable source material are provided below. Requests re y be considered an exception which must be submitted to the Santa Fe Envir case refer to 19.15.17.10 NMAC for gaidance.	garding chunges to onmental 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	
Ground water is between 50 and 100 feet below the bottom of the buried waste	from nearby wells	
- NM UNICE OF the State Engineer - IWATERS database search, USCIS, Data bolance i		[_]
Ground water is more than 100 feet below the bottom of the buried waste.		
 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained I 	from nearby wells	` <u> </u>
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant v (measured from the ordinary high-water mark).	vatercourse 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 existe	ence at the time of initial application.	, No
- Visual inspection (certification) of the proposed site; Aerial photo; satellate image		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than fiv purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence NM (Iffice of the State Frighter - iWATERS database; Visual inspection (certification)	te households use for domestic or stock watering at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well fit pursuant to NMSA 1978, Section 3-27-3, as amended.	eld covered under a municipal ordinance adopted	No
Written confirmation or verification from the municipality: Written approval obtained	from the municipality	
Within 500 feet of a wetland	n (certification) of the proposed site	
 US FISH and whener wehand tochthearthan map, ropographic map, visual inspection Within the area contribute a subsurface mine. 		No No
- Written confirantion or verification or map from the NM EMNRD-Mining and Miner	al Division	
Within an unstable area.	Yes	5 🔲 No
 Engineering measures incorporated into the design; NM Bureau of Geology & Minera Topographic map 	Resources; USGS; NM Geological Society;	_
Within a 100-year floodplain. - FEMA map	Yes	s No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	te following items must bee attached to the closure plan. Ple	ase indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate req	pirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements o	f Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the ap	propriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying p	ad) - based upon the appropriate requirements of 19.15.17.11 (NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.1	5.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate req	pirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of	Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and o	drill cuttings or in case on-site closure standards cannot be achi	eved)

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Operator Application C	<u>ertification:</u> unnation submitted with this application is true accurate	nate and complete to th	e best of my knowledge and belief.
Name (Drint):	Crystal Fafoya	Title:	Regulatory Technician
Name (Fran)-		Date:	12/22/2008
Signature:	- constal Japan	Telephone:	505-326-9837
e-mail address:	CARLINGA & CONSTANDING SANGE I	Terephone	
20			
OCD Approval:	ermit Application (including closure plan)	Closure Plan (only	() OCD Conditions (see attachment)
			Approval Date:
OCD Representative St	gnature.		
Title:		OCD Per	rmit Number:
······································			
21 <u>Closure Report (requir</u> Instructions: Operators are report is required to be sub approved closure plan has	ed within 60 days of closure completion): Sub e required to obtain an approved closure plan prior omitted to the division within 60 days of the completi been obtained and the closure activities have been o	section K of 19.15.17.13 NM. to implementing any clo on of the closure activit completed.	AC sure activities and submitting the closure report. The closure sies. Please do not complete this section of the form until an are Completion Date:
<u>Closure Method:</u>	_		_
Waste Excavation	and Removal On-site Closure Method	Alternative Closu	re Method Waste Removal (Closed-loop systems only)
If different from ap	pproved plan, please explain.		
23	· · · · · · · · · · · · · · · · · · ·		
Closure Report Regardin	g Waste Removal Closure For Closed-loop System	ns That Utilize Above Wine Swide and drill av	Ground Steel Tanks or Haul-off Bins Only: deings wars disposed. Use attachment if more than two facilities
Instructions: Please identi were utilized.	fy the faculty of facilities for where the liquids, are	ung junas ana arm cu	uungs were aisposed. Ose and when if not man no jutine
Disposal Facility Name	··	Disposal Facil	ity Permit Number:
Disposal Facility Name	······································	Disposal Facil	ity Permit Number:
Were the closed-loop sy	ystem operations and associated activities performed	on or in areas that will	not be used for future service and opeartions?
Yes (If yes, please	demonstrate complilane to the items below)	No	
Required for impacted	areas which will not be used for future service and o	operations:	
Site Reclamation (Photo Documentation)		
Soil Backfilling an	d Cover Installation		
Re-vegetation App	lication Rates and Seeding Technique	<u> </u>	
24	- benent Charlebets, Instructions, Each of the fo	Rowing items must be a	utached to the closure report. Please indicate, by a check mark in
the box, that the docum	nents are attached.		
Proof of Closure	Notice (surface owner and division)		
Proof of Deed No	otice (required for on-site closure)		
Plot Plan (for on-	-site closures and temporary pits)		
Confirmation Sat	mpling Analytical Results (if applicable)		
Waste Material S	Sampling Analytical Results (if applicable)		
Disposal Facility	Name and Permit Number		
Soil Backfilling a	and Cover Installation		
Re-vegetation Ap	pplication Rates and Seeding Technique		
Site Reclamation	(Photo Documentation)		
On-site Closure I	Location: Latitude:	Longitude:	NAD [] 1927 [] 1983
1			
25			
Operator Closure Cert Thereby certify that the in, the closure complies with	tification: formation and attachments submitted with this closu all applicable closure requirements and conditions :	ire report is ture, accuri specified in the approve	ate and complete to the best of my knowledge and belief. I also certify that a closure plan.
Name (Print)		Title:	
		Date	
Signature:	· · · · · · · · · · · · · · · · · ·	Date.	
e-mail address:	<u></u>	Telephone:	
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Owner Name:	(First)		(Last)	·····	<u>a a a construit de la construit de</u>	⊂ Non-I	Domestic	C Dom	estic 🔎	All
POD / St	urface Data R	eport	Avç	g Depth to	Water Re	port	Wate	er Column	Report	
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			WATER	COLUMN	REPORT	08/20/20	08			
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SJ 00032	27N 27N	10W 08 .	2 2 3 2 2 3				204	~~	2.0	
SJ 00034	27N 27N	10W 08	2 2 3				235	170	65	

Record Count: 3





Mines, Mills and Quarries Web Map

PIPKIN 1 Unit Letter: A, Section: 08, Town: 027N, Range: 010W









PIPKIN 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'PIPKIN 1', which is located at 36.59422 degree, North latitude and 107.91257 degree, West longitude. This location is located on the East Fork Kutz Canyon 7.5' USGS topographic quadrangle. This location is in section 8 of Township 27 North Range 10 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 9.0 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 18.9 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 4.5 miles to the southwest. The location is on Private land and is 347 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 1825 meters or 5986 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Big Sagebrush Shrubland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 55 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 350 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 8,431 feet to the north. The nearest water body is 683 feet to the west. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 9,016 feet to the south. 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 232 feet to the west. The nearest wetland is a 659.0 acre Ravine located 5,285 feet to the southwest. The slope at this location is 1 degree, to the west 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 'Blancot-Notal association, gently sloping' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 19.6 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided. ter y

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.

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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:

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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.

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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.

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR'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. BR 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.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR 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. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR 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 BR 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. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR 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. BR 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. BR 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 BR 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 BR'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 BR document.



DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J30BB		J36BB		J458B	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Mín. Roll Averag es	Typical Roll Averages
Appearance		Black	k/Black	Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mit	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		**Extr	usion laminated	with encapsulat	ted tri-direction	al scrim reinforc	ement
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 MD 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 ibf DD	146 ≀bf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 ibf MD 191 ibf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 ibf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F	180° F				
Minimum Use Temperature		-70° F	-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.

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

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- BR 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. BR 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. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR 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, BR 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, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR 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. BR 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 BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR 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, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR 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.

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- BR 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, BR will file the C144 Closure Report as required.
- 2. BR 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. BR 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 BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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 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 that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR 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 BR 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.
- 9. The surface owner shall be notified of BR'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. BR 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. BR 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

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

19.15.17.10 NMAC SITTING REQUIREMENTS

- ✓ New Mexico Office of State Engineer attachment
- USGS TOPO map
- 🖌 Aerial Map
- ☑ Mines, Mills and Quarries Map
- FIRM map (flood insurance rate map from Federal Emergency Agency)

19.15.17.11 NMAC DESIGN PLAN CONTENTS

Below Grade Tank Design and Construction Plan

19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

REGISTRATION DATE:

09/30/2015

NOTES: