District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
	Pit, Closed-Loop System, Below-Grad	
Propos	sed Alternative Method Permit or Closur	re Plan Application
Type of action:	<ul> <li>X Permit of a pit, closed-loop system, below-grade t</li> <li>Closure of a pit, closed-loop system, below-grade</li> <li>Modification to an existing permit</li> <li>Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method</li> </ul>	tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Instructions: Please submit one of	application (Form C-144) per individual pit, closed-loo	op system, below-grade tank or alternative request
	of this request does not relieve the operator of liability should operations r lieve the operator of its responsibility to comply with any other applicable	
1	2	
Operator: Burlington Resources O		OGRID#: 14538
Address: PO Box 4289, Farmingt		The second s
Facility or well name: STATE CO	M 361S	
API Number:	3004532865 OCD Permit Number	at
U/L or Qtr/Qtr: P Secti Center of Proposed Design: Latitud Surface Owner: Federal		Image: 3W County:         San Juan           -108.14909°W         NAD:         X 1927           1983         n Allotment
Permanent Emergency C Lined Unlined L String-Reinforced	rkover Cavitation P&A	HDPE PVC Other bbl Dimensions Lx Wx D
Type of Operation:     P&A       Drying Pad     Above Group       Lined     Unlined	notice of intent) und Steel Tanks Haul-off Bins Other	activities which require prior approval of a permit or
4         X       Below-grade tank:       Subsection         Volume:       120       I         Tank Construction material:	Type of fluid:       Produced Water         Metal         letection       X Visible sidewalls, liner, 6-inch lift and autor         Visible sidewalls only       Other	omatic overflow shut-off J <b>nspecified</b>
5 Alternative Method:	equired. Exceptions must be submitted to the Santa Fe Enviro	mmental Bureau office for consideration of approval
Form C-144	Oil Conservation Division	Page 1 of 5

6		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)		
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, included the strands of barbed wire at top (Required if located within 1000 feet of a permanent residence).	stitution or chu	arch)
Four foot height, four 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)		
Montiny inspections (i) neutring 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	1	
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:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	sideration of a	pproval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
	T	
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	Yes	XNo
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	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	<b>NA</b>	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		1.00
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		E
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	XNo
- 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>	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 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map		VIN
Within a 100-year floodplain - FEMA map	Yes	XNo

				list: Subsection B of 19.15.17.9 NMAC in the box, that the documents are attached.
				ubsection B of 19.15.17.9 NMAC
1				ph (2) of Subsection B of 19.15.17.9
	bliance Demonstrations - based up			
	•		Participation and an an an and an an an and an an an and an an an and an an an and an	1.10 HinAc
	upon the appropriate requirement			
	tenance Plan - based upon the app			
	complete Boxes 14 through 18, i nd 19.15.17.13 NMAC	if applicable) - based u	ipon the appropriate	requirements of Subsection C of
Previously Approved D	esign (attach copy of design)	API		or Permit
structions: Each of the follo	geologic Data (only for on-site clo	application. Please indica osure) - based upon the	ate, by a check mark in e requirements of Par	n the box, that the documents are attached. ragraph (3) of Subsection B of 19.15.17.9 te requirements of 19.15.17.10 NMAC
Design Plan - based	upon the appropriate requirement	ts of 19.15.17.11 NMA	AC	
Operating and Main	tenance Plan - based upon the app	propriate requirements	of 19.15.17.12 NM	AC
	complete Boxes 14 through 18, i			requirements of Subsection C of 19.15.17.9
	sign (attach copy of design)	API		
	perating and Maintenance Plan	API		
reviously Approved O	cracing and Maintenance Plan	AP1		-
	pplication Checklist: Subsection			
-				k in the box, that the documents are attached.
Hydrogeologic Repo	rt - based upon the requirements of	of Paragraph (I) of Sub	bsection B of 19.15.1	7.9 NMAC
	liance Demonstrations - based up	pon the appropriate req	uirements of 19.15.1	7.10 NMAC
Climatological Facto				
	g Design Plans - based upon the a			
	Structural Integrity Design: based		and the second	5.17.11 NMAC
=	gn - based upon the appropriate re			
	and Compatibility Assessment - b		riate requirements of	19.15.17.11 NMAC
	lity Assurance Construction and In			
_ · ·	enance Plan - based upon the app	and the second		
	opping Prevention Plan - based up		quirements of 19.15.	17.11 NMAC
	ous Odors, including H2S, Preven	hion Plan		
Emergency Respons				
Oil Field Waste Stre				
Monitoring and Insp				
Erosion Control Plan			0 15 17 0 00 000	1 10 16 17 12 NB44C
Closure Plan - based	upon the appropriate requirement	its of Subsection C of I	19.15.17.9 NMAC at	nd 19.15.17.13 NMAC
oposed Closure: 19.15	17.13 NMAC			
and a summer of the local division of the lo	the applicable boxes, Boxes 14 thro	ough 18, in regards to th	he proposed closure pl	an.
pe: Drilling Wo	kover Emergency Cavita	ation P&A P	Permanent Pit XBe	low-grade Tank Closed-loop System
oposed Closure Method:	X Waste Excavation and Remov	val (Below-Gra	de 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		
		-	omitted to the Santa F	e Environmental Bureau for consideration)
2				All is the set of the set of the set
aste Excavation and Re	moval Closure Plan Checklist: ( ark in the box, that the documents a		structions: Each of the	e Jollowing items must be attached to the closure pu
aste Excavation and Re ease indicate, by a check m	moval Closure Plan Checklist: ark in the box, that the documents a ures - based upon the appropriate	are attached.		e jollowing tiems must be attached to the closure pla
aste Excavation and Reease indicate, by a check m	ark in the box, that the documents a ures - based upon the appropriate	are attached. e requirements of 19.15	5.17.13 NMAC	
Aste Excavation and Reference         ease indicate, by a check m         X       Protocols and Proced         X       Confirmation Sample	ark in the box, that the documents a ures - based upon the appropriate ng Plan (if applicable) - based up	are attached. e requirements of 19.15 pon the appropriate requ	5.17.13 NMAC uirements of Subsect	
X         Protocols and Process           X         Protocols and Process           X         Confirmation Sample           X         Disposal Facility National Process	ark in the box, that the documents a ures - based upon the appropriate ng Plan (if applicable) - based up ne and Permit Number (for liquid	are attached. e requirements of 19.15 pon the appropriate required, drilling fluids and d	5.17.13 NMAC uirements of Subsect frill cuttings)	tion F of 19.15.17.13 NMAC
ease indicate, by a check m         X       Protocols and Proceed         X       Confirmation Sample         X       Disposal Facility National Social Backfill and Control	ark in the box, that the documents a ures - based upon the appropriate ng Plan (if applicable) - based up	are attached. e requirements of 19.15 pon the appropriate requireds, drilling fluids and d upon the appropriate r	5.17.13 NMAC uirements of Subsect drill cuttings) requirements of Subs	tion F of 19.15.17.13 NMAC ection H of 19.15.17.13 NMAC

16		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fl are required.	Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) uids and drill cuttings. Use attachment if more than two for	cilities
	Disposal Facility Permit #:	
	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No		
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-vegetation Plan - based upon the appropriate requirements of Subsection           Site Reclamation Plan - based upon the appropriate requirements of Subsection	ion I of 19.15.17.13 NMAC	
Die recentination raat outou apoi die appropriate requirements of Subst		
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. Rec certain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required.	may be considered an exception which must be submitted to the	
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ed from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	the standard	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	ed 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	ed from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significar (measured from the ordinary high-water mark).		Yes No
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in exi- Visual inspection (certification) of the proposed site; Aerial photo; satellite image	istence at the time of initial application.	Yes No
	and the second s	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existen - NM Office of the State Engineer - iWATERS database; Visual inspection (certificat	ce at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtain		Yes No
Within 500 feet of a wetland	ed from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspect	tion (certification) of the proposed site	
Within the area overlying a subsurface mine.	1. 40 C	Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining and Min	eral Division	
Within an unstable area.	5.63.55	Yes No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mine Topographic map</li> </ul>	ral Resources: USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
<sup>18</sup> On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate re	equirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements		
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying	pad) - based upon the appropriate requirements 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 re	equirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of	of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and	drill cuttings or in case on-site closure standards cann	not be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection		
Re-vegetation Plan - based upon the appropriate requirements of Subsection		and the second second
Site Reclamation Plan - based upon the appropriate requirements of Subsec	ction G of 19.15.17.13 NMAC	

**Oil Conservation Division** 

Page 4 of 5

gnature:	hereby certify that the information submitted with this application is true,			
in address:       created tableward connocabilities corr       Telephone:       505-326-9837         Angroval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         Representative Signature:	Name (Print): Crystal Tafoya	Title:		
Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         Representative Signature:	Signature: Applal apply r		the second s	
Representative Signature:	e-mail address: <u>crystal.tal@va@conocophillipS.com</u>	Telephone:	505-326-9837	
Representative Signature:				10
COD Permit Number:     OCD Closure Plan has been obtained and the closure completed on the closure activities. Please do not completed his section of the form unit an ed closure plan has been obtained and the closure explain.     Ocd Closure Completion Date:     Ocd Closure Completion Date:     Ocd Closure Nethod     On-site Closure Method    Alternative Closure Method    Waste Removal (Closed-loop systems only)     If different from approved plan, please explain.     Ocd Closure Method I cutting vere disposed. Use attachment if more than two facilities for there the liquids, drilling fluids and drill cutting vere disposed. Use attachment if more than two facilities for there the liquids, drilling fluids and drill cutting vere disposed. Use attachment if more than two facilities for the consel facility Name:     Disposal Facility Permit Number:     Disposal Facility Permit Number:     Site Section Application Rates and Secting Technique     Note that be the observation on permitted on the items below)     Oc     More disposed facility of facilitation Revergenation Application Rates and Secting Technique     Site Recentantion (Photo Documentation)     Soil Backfilling and Cover Installation     Revergenation Application Rates and Secting Technique     Site Recentant at endored.     Proof of Closure Notice (surface owner and division)     Proof of Closure Notice (surface owner and division)     Proo	CD Approval: Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
re Report (required within 60 days of closure completion); Subsection K of 19.15.17.13 NMAC         tions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an electron and the closure activities have been completed.            re Method:           Closure Completion Date:             re Method reported to the closure of the form approved plan, please explain.           Closure Completion Date:             re Method reported to the following items must be ditacked to the closure of the following items must be attached to the closure of the following items must be attached to the closure export. The closure for Closure Method plan, please explain.             execort Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:             titler:           Disposal Facility Permit Number:             posal Facility Name:	CD Representative Signature:		Approval Date:	-
<pre>times: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure is required to be submitted of the division within 0 doys of the completion of the closure activities. Please do not complete this section of the form until an ele closure plan has been obtained and the closure activities have been completed</pre>	tle:	OCD Permi	t Number:	_
re Method:         Waste Excavation and Removal       On-site Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         If different from approved plan, please explain.         re Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only;         finan: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities thitzed.         posal Facility Name:	structions: Operators are required to obtain an approved closure plan p port is required to be submitted to the division within 60 days of the com	rior to implementing any closur pletion of the closure activities. een completed.	Please do not complete this section of the form until an	
Wate Eccavation and Removal       On-site Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         If different from approved plan, please explain. <b>e Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</b> titlese.       Iterative Closure Method       Disposal Facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for swhere the liquids, drilling fluids and drill cuttings were disposed for future service and operations?         Yes (If yes, please demonstrate compliane to the items below)       Disposal Facility Permit Number:         Site Reclamation (Photo Documentation)       No         Soil Backfilling and Cover Installation       Re-vegetation Application Rates and Seeding Technique         Struct Attachmen		Closure	Completion Date:	-
If different from approved plan, please explain.	osure Method:			
e Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: tions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities tilized. posal Facility Name: Disposal Facility Permit Number: posal Facility Name: Disposal Facility Permit Number: posal Facility Name: Disposal Facility Permit Number: posal Facility Name: Disposal Facility Permit Number: the closed-loop system operations and associated activities performed on or in areas that will nor be used for future service and operations? Yes (If yes, please demonstrate complilane to the items below)No wired for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique sure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in bax, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Waste Excavation and Removal On-site Closure Metho	Alternative Closure M	fethod Waste Removal (Closed-loop systems only)	
tions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities lifted. posal Facility Name: Disposal Facility Permit Number: re the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate complilane to the items below)No uired for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique  surre Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	If different from approved plan, please explain.			23
tions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities lifted. posal Facility Name: Disposal Facility Permit Number: re the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate complilane to the items below)No uired for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique  surre Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique				15
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posal Facility Name:       Disposal Facility Permit Number:         re the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?         Yes (If yes, please demonstrate complilane to the items below)       No         wired for impacted areas which will not be used for future service and operations:         Site Reclamation (Photo Documentation)         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         seure Report Attachment Checklist:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in box, that the documents are attached.         Proof of Closure Notice (surface owner and division)         Proof of Deed Notice (required for on-site closure)         Plot Plan (for on-site closures and temporary pits)         Confirmation Sampling Analytical Results (if applicable)         Waste Material Sampling Analytical Results (if applicable)         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique	re utilized.	, ar uning francis and ar ar caning	s were asposea. Ose anachment y more man two jacante	3
re the closed-loop system operations and associated activities performed on or in areas that will nor be used for future service and operations? Yes (If yes, please demonstrate complilane to the items below)   No wired for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique source Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Disposal Facility Name:	Disposal Facility P	ermit Number:	
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Re-vegetation Application Rates and Seeding Technique	Disposal Facility Name and Permit Number			
	Soil Backfilling and Cover Installation			
Site Reclamation (Photo Documentation)	Re-vegetation Application Rates and Seeding Technique			
	Site Reclamation (Photo Documentation)			
On-site Closure Location: Latitude: Longitude: NAD [ 1927 [ 1983	On-site Closure Location: Latitude:	Longitude:	NAD [] 1927 [] 1983	
On-site Closure Location: Latitude: Longitude: NAD 1927 1983	<ul> <li>Disposal Facility Name and Permit Number</li> <li>Soil Backfilling and Cover Installation</li> <li>Re-vegetation Application Rates and Seeding Technique</li> <li>Site Reclamation (Photo Documentation)</li> </ul>	Longitude:	NAD [] 1927 [] 1983	
	eby certify that the information and attachments submitted with this clo	osure report is ture, accurate an as specified in the approved clos	d complete to the best of my knowledge and belief. I also ce sure plan.	rtify the
tor Closure Certification: w certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify the sure complies with all applicable closure requirements and conditions specified in the approved closure plan.	ne (Print):	Title:		
v certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify the use complies with all applicable closure requirements and conditions specified in the approved closure plan.	nature:	Date:		
v certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify the ure complies with all applicable closure requirements and conditions specified in the approved closure plan.  (Print): Title:	mature.			
<pre>vertify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify the ure complies with all applicable closure requirements and conditions specified in the approved closure plan. (Print):</pre>	nail address:	Telephone:		

New Mexico Office of the State Engineer

#### New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 32N Range: 13W Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) ONon-Domestic ODomestic OAll POD / Surface Data Report Avg Depth to Water Report Water Column Report **Clear Form iWATERS Menu** Help

#### WATER COLUMN REPORT 08/20/2008

(qu	arter	s are	e 1=	NW	2:	=NE	3=SW 4=S	E)						
							o smalles			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng					Zone	x	Y	Well	Water	Column		
SJ 01187 CLW226675	32N	13W			4					24	9	15		
SJ 01187	32N	13W			4	4				24	9	15		
SJ 01353	32N	13W			3						38			
SJ 01439	32N	13W			3					45	25	20		
SJ 02068	32N	13W		2						45	16	29		
SJ 01549	_ 32N	13W			1					47	28	19		
SJ 02985	32N	13W		2	1					47	25	22		
SJ 02350	32N	13W		2	3	1				26				
SJ 02865	_ 32N	13W		2	3	2				44	29	15		
SJ 02558	32N	13W		3		4				41	23	18		
SJ 02934	_ 32N	13W		4	1	1				34	18	16		
SJ 02890	_ 32N	13W		4	1	2	1.**			55	30	25		
SJ 02705	_ 32N	13W		1	4	2				25	12	13		
SJ 02704	_ 32N	13W		1	4	2				25	12	13		
SJ 03111	_ 32N	13W		2	1	4				19	6	13		
SJ 02848	32N	13W		2	4	3				608	50	558	1.4	
SJ 00922	_ 32N	13W		3	1	4				27	12	15		
SJ 00906 X	_ 32N	13W		3	_					86	26	60		
SJ 02918	_ 32N	13W		3	-	2				51	30	21		
SJ 00736	32N	13W			1					40	15	25		
SJ 00339	32N	13W		4	1					50	12	38		
SJ 00340	_ 32N	13W	22	4	1	3				50	12	38		
SJ 02847	32N	13W	22	4	4	1				1255		1255		
SJ 03123	32N	13W	27	3	4	1				. 30				
SJ 03524	32N	13W	27	3	4	1				33	10	.23		
SJ 03525	32N	13W	27	4	3	1				71	12	59		
SJ 01285	32N	13W	28	3	1	4				27		55		
SJ 03256	32N	13W		1	4	2				21	6	15		
SJ 03037	32N	13W		1		3				100	-	10		
SJ 03066	32N	13W		2	2	1.00				41	28	13		
SJ 01079	32N	13W			3	-				100	30	70		
SJ 01943	32N	13W		4	-					100	3	5		
	-			-						0	5	5		

'New Mexico Office of the State Engineer

SJ 02901	32N	13W 34	4	2	2	50		
SJ 03635	and an end of the second	13W 34				44	35	9
SJ 02577	32N	13W 34	4	4		30	15	15
SJ 03090	32N	13W 35	3	1	1	59	47	12
SJ 02589	32N	13W 35	3	3	2	60	35	25
SJ 02783	32N	13W 35	3	3	4	62	48	14

1.1

Record Count: 38

1

8/20/2008

New Mexico Office of th	e State Engineer
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Township: 31N	Range: 13W	Sections:	
NAD27 X:	Y:	Zone:	Search Radius:
County: Bas	in:		Number: Suffix:
Owner Name: (First)	(Last)		○Non-Domestic ○Domestic @All
POD / Surface Data Repo		g Depth to Water	Report Water Column Report

WATER COLUMN REPORT 08/20/2008

							3=SW 4=SI							
							smallest	E)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng					Zone	x	Y	Well	Water	Column		
SJ 02590	31N	13W			2	3				114	70	44		
SJ 00835	31N	13W			2					34	19	15		
SJ 03386	31N	13W	03	2						80	11	69		
SJ 02879	31N	13W			-	2				30				
SJ 03137	31N	13W				3				50				
SJ 02990	31N	13W		2	3	4				100	22	78		
SJ 01295	31N	13W				1				. 230	180	50		
SJ 02977	31N	13W				3				325	124	201		
SJ 02920	31N	13W	09			3				85				
SJ 02755	31N	13W	09			4				60	40	20		
SJ 02987	31N	13W	09	4	1	3				250	87	163		
SJ 03382	31N	13W	09	4	3	2				50				
SJ 02717	31N	13W	10	1	3					42	22	20		
SJ 01094	31N	13W	10	2						130	60	70		
SJ 00798	31N	13W	10	2						125	65	60		
SJ 00089	31N	13W	10	2	1	1				80	18	62		
SJ 01952	31N	13W	10	2	4					16	6	10		
SJ 01944	31N	13W	10	2	4					20	4	16		
SJ 02276	31N	13W	10	3						24	19	5		
SJ 01945	31N	13W	10	3	3					31	16	15		
SJ 00729	31N	13W	10	4	1					43	10	33		
SJ 01950	31N	13W	10	4	1					21	11	10		
SJ 02637	31N	13W	10	4	2	2				20	6	14		
SJ 03734 POD1	31N	13W	15	1	4	3				40	10	30		
SJ 02048	31N	13W	15	3	2	4				54	24	30		
SJ 00398	31N	13W								104	6	98		
SJ 00965	31N	13W		1						115	30	85		
SJ 03197	31N	13W		1	1	3				11	5	6		
SJ 01820	31N	13W		3		-				50	20	30		
SJ 02737	31N	13W		3						78	40	38		
SJ 02836	31N	13W				1				100	30	38		
SJ 03797 POD1	31N	13W		3						220		100 Te 1		
and output a data	0.11	1211	20	5	5	5				220	20	200		

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Page 2 of 2

SJ`03611	31N	13W 2	23	1 3	1			24	14	10	
SJ 02729	31N	13W 2	27 3	1 1				100	70	30	
SJ 02753	31N	13W 2	27	1 1	1			74	40	34	
SJ 02832	31N	13W 2	27	1 1	. 1			80	20	60	
SJ 03191	31N	13W 2	27 3	1 3	1			100			
SJ 03351	31N	13W 2	27	1 4	2			42	20	22	
SJ 02761	31N	13W 2	27 3	3 3	5			80	40	40	
SJ 02294	31N	13W 2	28	4 2	3			42	15	27	
SJ 02724	31N	13W 2	28	4 2	3			40	5	35	
SJ 03730 POD1	31N	13W 2	28	4 3	1		2	190	70	120	
SJ 02811	31N	13W 2	28	4 4	1			50	2	48	
SJ 02766	31N	13W 2	28	4 4	4			50	12	38	
SJ 03284	31N	13W 3	33 3	1 3	1			160			
SJ 02072	31N	13W 3	33 3	1 4				42	18	24	
SJ 01591	31N	13W 3	33 3	3 1	. 1			70	56	14	
SJ 02618	31N	13W 3	33 3	3 2	1			500			
SJ 03083	31N	13W 3	33 3	3 2	2			25	14	11	
SJ 02374	31N	13W 3	33 3	3 2	3			18	6	12	
Ministration of the local division of the lo											

Record Count: 50

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

# New Mexico Office of the State Engineer

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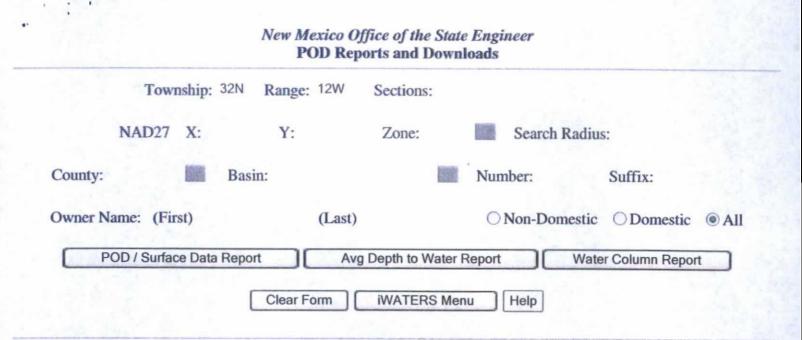
				ffice of the Stat ports and Down	
	Township	; 31N Rang	e: 12W	Sections:	
	NAD27 X:	Y:		Zone:	Search Radius:
County:	1	Basin:			Number: Suffix:
Owner Na	ume: (First)		(Last)		ONon-Domestic ODomestic @ All
PC	DD / Surface Da	ta Report	Av	g Depth to Water	Report Water Column Report

WATER COLUMN REPORT 08/20/2008

	(quarter: (quarter:						3=SW 4=			Depth	Depth	Water	(4-	feet)
POD Number	Tws	Rng		_			Zone	x	Y	Well	Water	Column	(111	reer)
SJ 03488	31N	12W	01	3	3	2			-	150		CO'L GALL		
SJ 03738 POD1	31N	12W	01	4	1	3				115	50	65		
SJ 02034	31N	12W	01	4	3					85	55	30		
SJ 03134	31N	12W	01	4	3	2				80	20	60		
SJ 03022	31N	12W	01	4	3	2				490	250	240		
SJ 01660	31N	12W	01	4	3	3				320	275	45		
SJ 01649	31N	12W	01	4	3	4				· 220	161	59		
SJ 03660	31N	12W	01	4	3	4				· 70	42	28		
SJ 02099	31N	12W	01	4	4					95		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
SJ 02904	31N	12W	08	4	4	4				325	142	183		
SJ 03026	31N	12W	24	4	3	4				140	85	55		
SJ 01477	31N	12W	25	2						565	505	60		
SJ 01163	31N	12W	25	2	1	3				200	90	110		
SJ 01108	31N	12W	25	2	1	4				245	90	155		
SJ 01303	31N	12W	25	2	2	3				210				
SJ 01180	31N	12W	25	2	2	4				200	120	80		
SJ 00968	31N	12W	25	2	4					170	100	70		
SJ 03204	31N	12W	31	4	3	1				40	20	20		
SJ 02021 X	31N	12W	35	4	2					290	250	40		
SJ 02021	31N	12W	35	4	2					115				
SJ 03309	31N	12W	35	4	4	4				240	210	30		

Record Count: 21

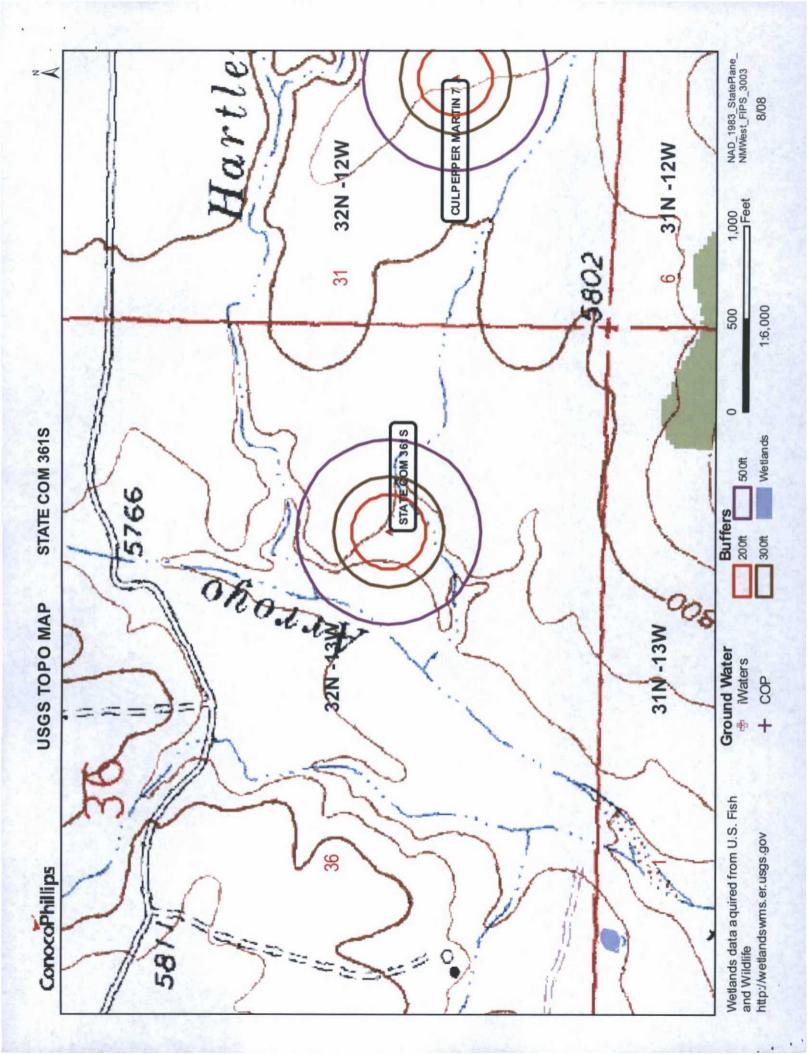
New Mexico Office of the State Engineer



WATER COLUMN REPORT 08/20/2008

	(quarter (quarter									Depth	Depth	Water	(in feet)
POD Number	TWS	Rng	Sec	q	q	P	Zone	x	Y	Well	Water	Column	
SJ 01213	32N	12W	18	2	3	4				640	20	620	
SJ 01212	32N	12W	18	4	1	3				43	5	38	
SJ 03583	32N	12W	23	1	1	1				167	60	107	
SJ 00055	32N	12W	25	2						504			
SJ 02110	32N	12W	28	2	1	4	W	391500	2170000	171	90	81	
SJ 01106	32N	12W	35	3	4					180	115	65	

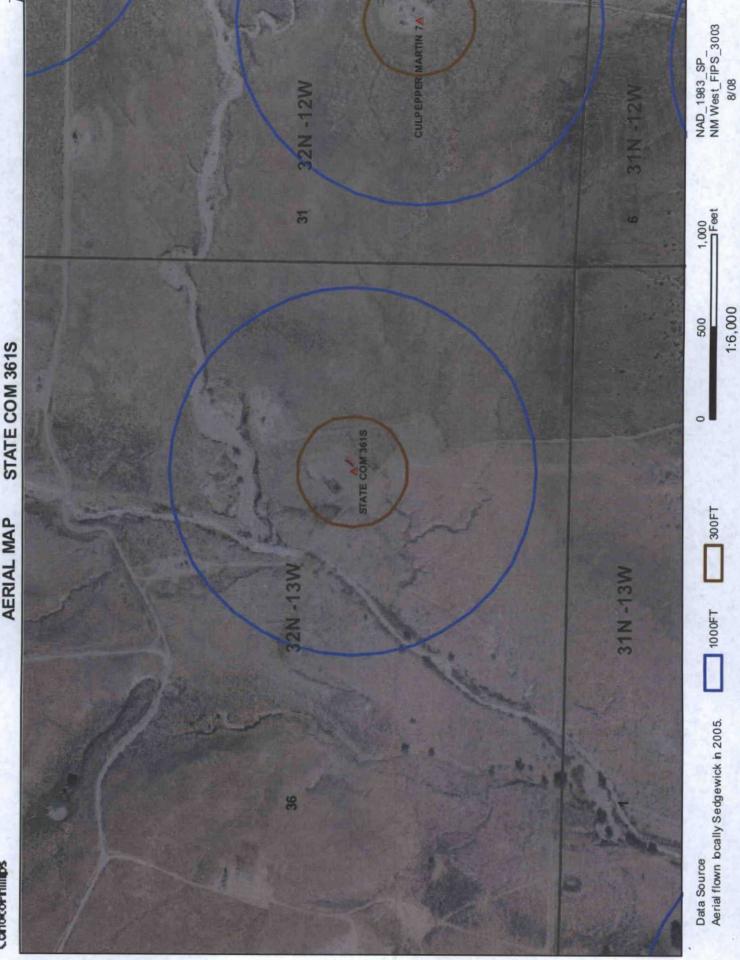
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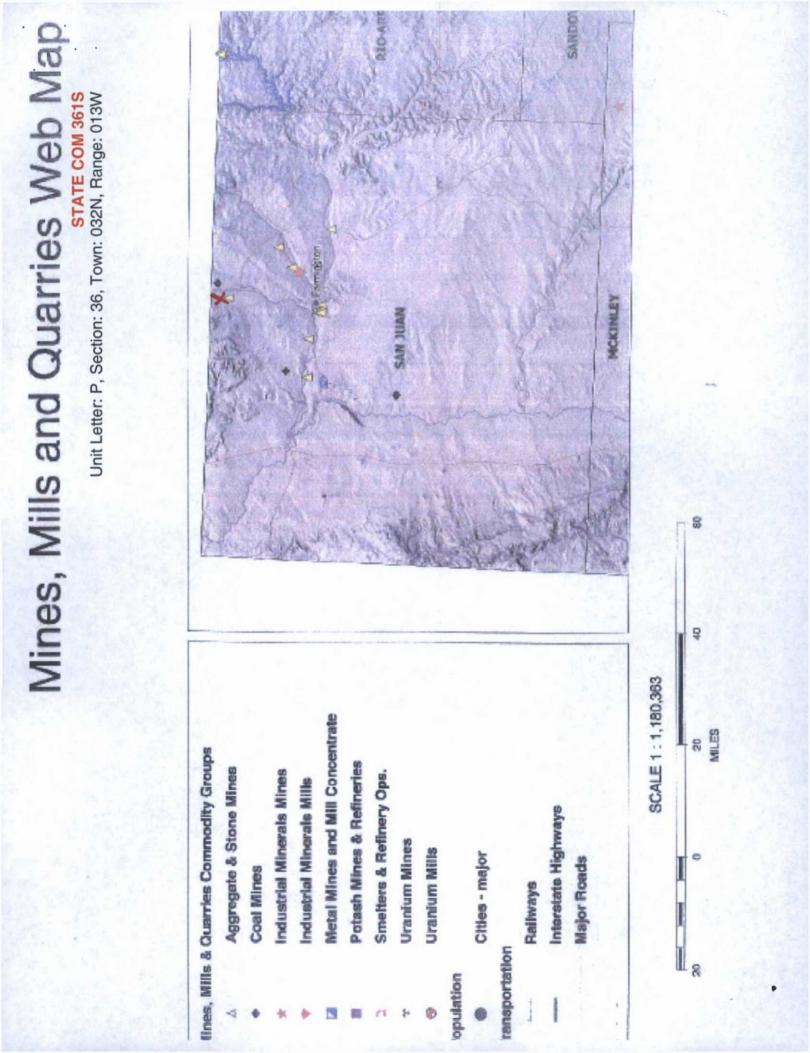


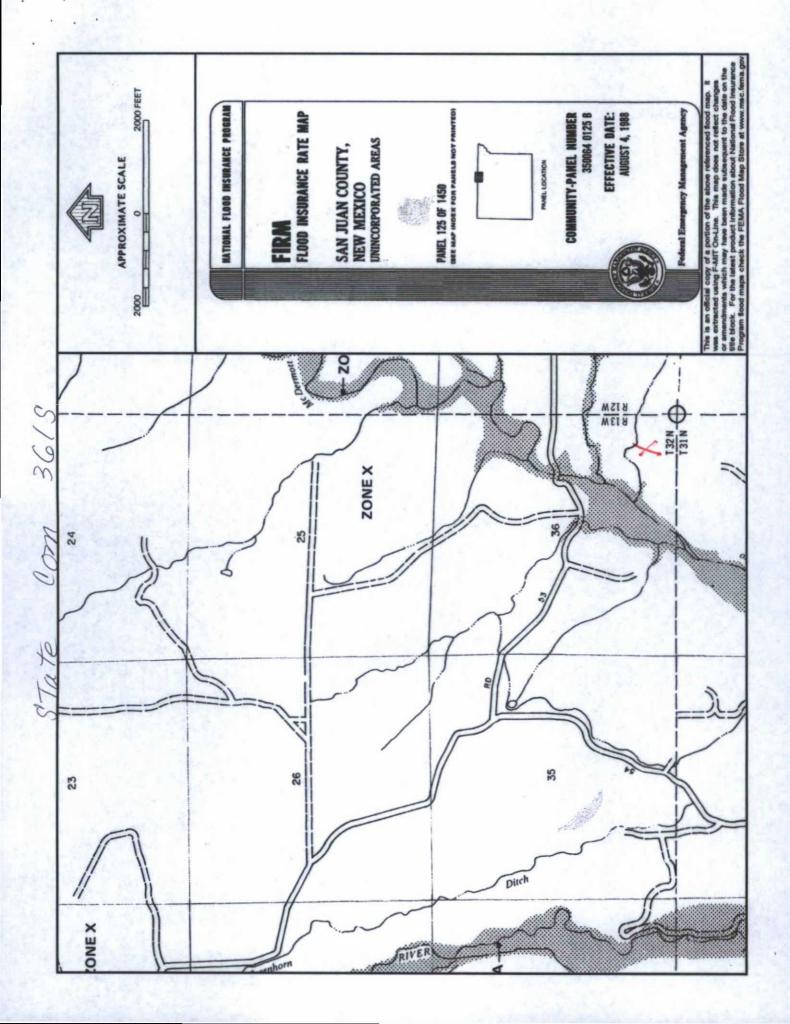


AERIAL MAP

Z4







### STATE COM 361S

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'STATE COM 361S', which is located at 36.93892 degrees North latitude and 108.14909 degrees West longitude. This location is located on the La Plata 7.5' USGS topographic quadrangle. This location is in section 36 of Township 32 North Range 13 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 La Plata, located 2.6 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 14.5 miles to the south (National Atlas). The nearest highway is State Highway 574, located 0.8 miles to the south. The location is on State land and is 984 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Middle San Juan. Arizona, Colorado, New Mexico, Sub-basin. This location is located 1763 meters or 5782 feet above sea level and receives 12 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is -19 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 85 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 5,880 feet to the northwest. The nearest water body is 2,620 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 25,105 feet to the north. 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 4,963 feet to the southwest. The nearest wetland is a 0.2 acre other located 2,597 feet to the southwest. The slope at this location is 0 degrees 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 2.1 miles to the northwest 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 comnformably 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.

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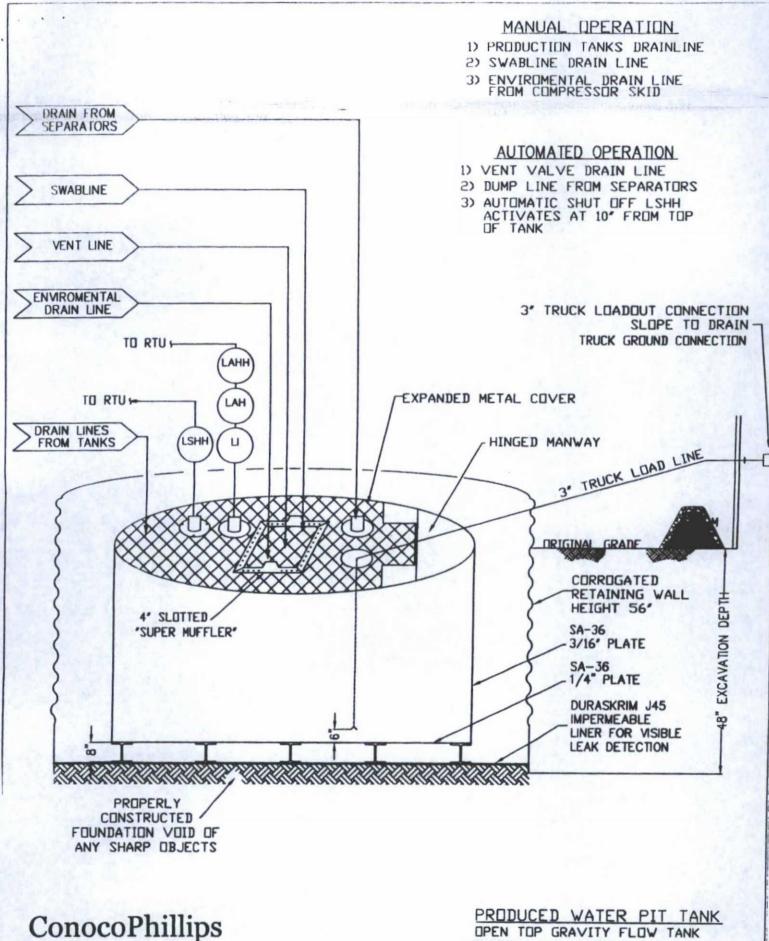
## Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- 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.
- 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.
- 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.



San Juan Business Unit

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

PROPERTIES	TEST METHOD	, J3	OBB	13	68 <b>8</b>	J4588				
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages			
Appearance	ppearance		k/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 (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	**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			
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 <sup>*</sup> 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 Teat	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD			
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5			
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf			
Maximum Use Temperature		180° F								
Minimum Use Temperature		-70° F								

MD = Machine Direction DD = Diagonal Directions

OURA-SEDIM

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 pisotaims all Liberty for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

## SALES OFFICE

SH

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 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:

- 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 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.
- 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.
- 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 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, 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.
- 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.
- 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.
- 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.
- 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

# OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

# 19.15.17.9 Permit application

Signed C-144 (Page 5 of C-144)

Site Specific Hydrogeology

## 19.15.17.10 Siting requirements

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

## 19.15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

# 19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

## 19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

**Requirements:** 

Registration Date: 2/15/2016