District I	State of New Mexico	Form C-144
Di mitt II	Energy Minerals and Natural Resources	July 21, 200
1301 W. Grand Ave., Artesia, NM 88210	Department Oil Conservation Division	for temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
District III	1220 South St. Francis Dr.	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe
District IV 1220 S. St. Francis Dr., Santa Fe, NM, 87505		appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grade	e Tank, or
Propos	ed Alternative Method Permit or Closur	e Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade ta	ank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one a	polication (Form C-144) per individual nit, closed-loo	n system helow-arade tank or alternative reasest
Please be advised that approval o	f this request does not relieve the operator of liability should operations re	p system, nerow-grade tank or differentive request
environment. Nor does approval reli	eve the operator of its responsibility to comply with any other applicable (	governmental authority's rules, regulations or ordinances.
I Operator: Burlington Resources Oi	l & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingto	n, NM 87499	
Facility or well name: <b>PAYNE CON</b>	M 1A	······
API Number: 3	004529912 OCD Permit Number	······································
U/L or Qtr/Qtr: I Section	on: <b>26</b> Township: <b>30N</b> Range: 11	W County: San Juan
Center of Proposed Design: Latitude	: 36.78027°N Longitude:	-107.9552°W NAD: X 1927 1983
Surface Owner:  Federal	State X Private Tribal Trust or Indian	Allotment
Pit:       Subsection F or G of 19.15.17         Temporary:       Drilling       Worl         Permanent       Emergency       C         Lined       Unlined       Lin         String-Reinforced       Liner Seams:       Welded       Fa	7.11 NMAC kover avitation P&A ner type: Thickness mil LLDPE H ctory Other Volume:	IDPE         PVC         Other           bbl         Dimensions L         x W         x D
3       Closed-loop System:       Subsecti         Type of Operation:       P&A       P&A         Drying Pad       Above Grour         Lined       Unlined       Liner         Liner Seams:       Welded       Factors	on H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to a notice of intent) nd Steel Tanks Haul-off Bins Other type: Thickness mil LLDPE HE ctory Other	ctivities which require prior approval of a permit or
4         X       Below-grade tank:       Subsection I         Volume:       120       bb         Tank Construction material:	of 19.15.17.11 NMAC I Type of fluid: <u>Produced Water</u> <u>Metal</u> tection X Visible sidewalls, liner, 6-inch lift and auton Visible sidewalls only Other Other <u>Un</u>	natic overflow shut-off specified
Submittal of an exception request is requ	uired. Exceptions must be submitted to the Santa Fe Environr	nental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, tengorary oils, and below are detended								
a second supportant of pertaktion part, compositive prist, 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, inclusion as already								
Four foot height, four strands of barbed wire evenly spaced between one and four feet								
X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u>	X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u>							
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 Signa C. Lucia C. Libra and a signa and a si								
Subsection C of 19,[5,17,1] NMAC								
V Signad in complement id 10.11.0 (constraints)								
9 Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for midness								
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 o	onsideration o	f approval						
Exception(s): Requests must be submitted to the Sente Fe Henderson in LP	Subject attoin ()	approvat.						
Final a consideration of approval.	·= ·······							
10 Siting ("riterty (regurding permitting), 10.16.17.10.10.16.17	<u> </u>	— <u> </u>						
Instructions: The applicant must demonstrate compliance for each siting criteria below in the smaller if the start of the								
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 instification for must be submitted to the Santa Fe Environmental Bureau Office for	ł							
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 text								
- 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								
- Topographic map: Visual inspection (certification) of the proposal site								
Within 300 foot forms a second of the second determination of the proposed site	Í							
application.	Yes	XNo						
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		ļ						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application,								
(Applied to permanent pits)								
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>Within 500 huminous in the control of the proposed site; Aerial photo; Satellite image</li> </ul>								
purposes, or within 1000 horizontal feet of any other 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						
- Written confirmation or verification from the municipality; Written approval obtained from the municipality								
Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (cartification) of the survey of the	Yes	XNo						
Within the area overlying a subsurface mine.	   [ <sup></sup> ]Yee	<b>N</b> No						
Within an unreaded or vertication or map from the NM EMNRD - Mining and Mineral Division								
Engineering measures incorporated into the design: NM Bureau of Geology & Mineral Duranteering theory and the design of Geology & Mineral Duranteering theory and theory and the design of Geology & Mineral Duranteering theory and the design of Geology & Mineral Duranteering theory and	Yes	XNo						
Society; Topographic map								
FEMA map	Yes	X No						

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the hor, that the documents are attached
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subjection B of 10.15 (7.0 MMAAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15,17,9 NMAC
X Siling Criteria Compliance Demonstrations - based upon the companying of 10 15 17.9
<b>X</b> Design Disp. begod upon the second apon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 <u>Closed-loop Systems Permit Application Attachment Checklist:</u> Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 10.15 (7.10 NMAAC)
Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
Operating and Maintenance Blanchers and
E Spectrum and Wrantichance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 1915179 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate by a check much in the four should be attached to the application.
Hydrogeologic Report - based upon the requirements of Derements (b) (c) is a first of the former of
Siting Criteria Compliance Demonstrations of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Climatological Victory Assessments
Cartificat Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17 LINMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
The second secon
$\Box$ Closure Plan - based upon the extension $z_{1} = z_{2}$
Change that - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Instructions: Please complete the applicable bares. Rayes 14 thereach 19 to another the termination of the second se
Type: Drilling Westerner of the State of the
Drating Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-toop System     Alternative
Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial Flon-site Trench
Alternative Closure Method (Exceptions must be submitted to the Sector To Day)
Le consideration)
D Works Exception and Browned (II DI Control
Please indicate by a check must be attached to the closure plan.
<b>X</b> Protocols and Providence based upon the ansate attached.
Confermation Sumption Dr. 65 - 65 - 6 - 10 - 10 - 10 - 10 - 10 - 10 - 10
[A] Countination Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
[A] Disposal Pacifity Name and Permit Number (for liquids, drilling fluids and drill cuttings)
[X] Soli 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 1 of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection C of 19 15 17 11 NAME OF

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- 16							
Wate Removal Closure For Closed-loop Systems That Utilize Ab Instructions, Please chantle do to illing a castle of the Utilize Ab	ove Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC	)					
are required.	f tiquids, drifting fluids and driff contings. Use attachment if more than two	o facilities					
Disposal Facility Name:	Disposal Facility Permit #:						
Disposal Facility Name:	Disposal Facility Permit #:	<u> </u>					
Will any of the proposed closed-loop system operations and asse	ociated activities occur on or in areas that will not be used for future No	service and operations?					
Required for impacted areas which will not be used for future service     Soil Backfill and Cover Design Specification - based upo     Re-vegetation Plan - based upon the appropriate requirer     Site Reclamation Plan - based upon the appropriate requirer	and operations: on the appropriate requirements of Subsection H of 19, 15, 17, 13 NM nents of Subsection I of 19, 15, 17, 13 NMAC incoments of Subsection G of 10, 15, 17, 13 NMAC	AC					
	Tements of Subsection G of 19.15.17.13 NMAC						
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19. Instructions: Each siting criteria requires a demonstration of compliance in t certain siting criteria may require administrative approval from the appropri- for consideration of approval. Justifications and/or demonstrations of equiva-	15.17.10 NMAC he closure plan. Recommendations of acceptable source material are provided be atc district office or may be considered an exception which must be submitted to it dency are required. Please refer to 19.15-17.10 NMAC for guidance.	dow: Requests regarding changes to he Santa Fe Environmental Bureau affice					
Ground water is less than 50 feet below the bottom of the buried	waste.	Yes No					
<ul> <li>NM Office of the State Engineer - iWATERS database search; I</li> </ul>	JSGS: Data obtained from nearby wells						
Ground water is between 50 and 100 feet below the bottom of th	e buried waste						
- NM Office of the State Engineer - iWATERS database search: U	SGS; Data obtained from nearby wells						
Ground water is more than 100 feet below the bottom of the buri	ed waste.	TYes No					
<ul> <li>NM Office of the State Engineer - iWATERS database search; U</li> </ul>	SGS: Data obtained from nearby wells						
Within 300 feet of a continuously flowing watercourse, or 200 feet of a (measured from the ordinary high-water mark).	ny other significant watercourse or lakebed, sinkhole, or playa lake						
<ul> <li>Topographic map: Visual inspection (certification) of the propose</li> </ul>	d site						
Within 300 feet from a permanent residence, school, hospital, institutio - Visual inspection (certification) of the proposed site; Aerial photo,	n, or church in existence at the time of initial application. ; satellite image	Yes No					
Within 500 horizontal feet of a private, domestic fresh water well or spr purposes, or within 1000 horizontal fee of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual ins Within incorporated municipal boundaries or within a defined municipa pursuant to NMSA 1978, Section 3-27-3, as amended.	ing that less than five households use for domestic or stock watering spring, in existence at the time of the initial application, pection (certification) of the proposed site if fresh water well field covered under a municipal ordinance adopted	Yes No					
Written confirmation or verification from the municipality: Writte	n approval obtained from the municipality	ĺ					
Within 500 leet of a wetland - IIS Fish and Wildlife Weiland Identification		Yes No					
Within the area overlying a subsurface mine.	ap: Visual inspection (certification) of the proposed site						
<ul> <li>Written confirmation or verification or map from the NM EMNRD</li> <li>With in maps of 11</li> </ul>	-Mining and Mineral Division						
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Topographic map</li> </ul>	Geology & Mineral Resources; USGS: NM Geological Society;	Yes No					
Within a 100-year floodplain. - FEMA map		Yes No					
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruct by a check mark in the box, that the documents are attached	tions: Each of the following items must bee attached to the closur	e plan. Please indicate,					
Siting Criteria Compliance Demonstrations - based upon the	16 30000001216 monitorments of 10 15 15 to serve a						
Proof of Surface Owner Notice - based upon the appropriat	e appropriate requirements of 19.15.17.10 NMAC						
Construction/Design Plan of Burial Trench (if applicable) h	based upon the appropriate requirements of 10.15.17.11 NAX-C						
Construction/Design Plan of Temporary Pit (for in place bu	rial of a drying pad) - based upon the appropriate requirements of 1/	15 27 11 80 64 0					
Protocols and Procedures - based upon the appropriate requ	tirements of 19.15.17.13 NMAC	ABBALLINMAC					
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC							
Waste Material Sampling Plan - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, dri	lling fluids and drill cuttings or in case on-site closure standards can	not be achieved)					
Soil Cover Design - based upon the appropriate requiremen Re-vegetation Plan - based upon the appropriate requiremer	ts of Subsection H of 19.15.17.13 NMAC ns of Subsection I of 19.15.17.13 NMAC	and a define very					

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

Description         Operating Application (critication)           Checker very the deformation observed was the application is true, accuate and complex to the Fort of my knowledge and helder.           Name (Pratt)         Cristal Edge           Signature         Date:           (2227)008         (2227)008           Signature         (2227)008           (2020)         (2221)008	19				
PlaceSey, value, has the information when and when the applications in the casualize and complete to the board only handle less and when the information.       The key labors y Technican         Nome (Think)       Constant Editory       The key labors y Technican       1222/2003         OCD Approval:       Open (Think)       Date:       1222/2003         OCD Approval:       Constant is the second on the labors of the second on the la	Operator Application (	Certification:			
Nume (Print)         Circuit Info?         Title         Regulation           e mult address:	Thereby certify that the inf	ormation submitted with this application is true, accu	mate and complete to the	best of my knowledge and belief.	
Signifular       Control Makingsi:       Signifular: (set is set is set if if the provided in the set is set if if the provided is the set is set if if the provided is the set is set if if the provided is the set is set if if the provided is the set is set if if the provided is the set is set if if the provided is the set is set if the set is set is set if the set is set is set is set if the set is set is set is set if the set is set is set is set if the set is s	Name (Print):	Crystal Tafoya	Title:	Regulatory Technician	
e-mini address:	Signature:	Contal Topos	Date:	12/22/2008	
10         SQCD Approval:       Permit Application (including closure plan)       Closure Plan (otly)       OCD Conditions (see attachment)         ICCD Representative Signature:	e mail address:	Vistal la cya <u>Boont coppilais com</u>	Telephone:	505-326-9837	
30       CON_Deproval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see statchment)         10CD Representative Signature:				000 //20 /001	
The Depresentative Signature:	20 OCD Approval:	ermit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	- <u></u> , <u></u> ,
Tile:       OCD Permit Number:         31       Closure Report (required within 60 days of closure completion): should a statistic of the statistis of the statistic of t	UCD Representative Si	gnature:		Approval Date:	
21         Clearer Report (required within 60 days of clearer completion); showed K (1915) 13 NAAC         Infant non:: Operatives are required to chains an upproved clearer plan in to implementing up, chaine a divisit and substitute of the division within 60 days of the completion of the clearer activities. Please do not complete this section of the learn undt and upproved learner plan has been downed and the clearer plan is the end of the clearer been ompleted.         21	Title:		OCD Perm	it Number:	_
Classer Report (recurred within 60 datas of closer completion): sources (1):1713:NMC         Control in the summary in order on marked in order on any proved closure prove. The share entropy of the section of the closer entropy of the section of the closer entropy. The share entropy of the section of the closer entropy of the section of the closer entropy. The share entropy of the section of the closer entropy. The share entropy of the section of the closer entropy. The share entropy of the section of the closer entropy. The share entropy of the section of the closer entropy of the section of the closer entropy. The share entropy of the section of the closer entropy of the section of the closer entropy of the section of the closer entropy. The section of the closer entropy of the section of the closer entropy of the section of the sectin section of the section of the section of the	21				
21       Closure Method:       Waste Excavation and Removal       On-site Closure Method       Waste Removal (Closed-loop systems only)         21       Closure Report Reparting Waste Removal Closure Fee Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Ring Only:         23       Closure Report Reparting Waste Removal Closure Fee Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Ring Only:         23       Closure Report Reparting Waste Removal Closure Fee Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Ring Only:         24       Disposal Facility Name:       Disposal Facility Permit Number:         25       Disposal Facility Same:       Disposal Facility Permit Number:         26       See demonstrate compliante to the lense blogo    0       No         Required for impacted areas which will not be used for future service and operations:          0         26       See demonstrate compliants on the used for future service and operations:         26       See demonstrate compliante to the lense blogo    0       No         Required for impacted areas which will not be used for future service and operations:          0         26       See demonstrates and Seeding Technique          0         36       Backfilling and Core Installation          0          0         36       Backfilling and Core Installation          0          0          0 <th>Closure Report (require Instituctions: Operators are report is required to be sub- approved closure plan has b</th> <th>ed within 60 days of closure completion): Sub- required to obtain an approved closure plan prior to nitted to the division within 60 days of the completio been obtained and the closure activities have been co</th> <th>ection K of 19.15.17-13 NMAC o implementing any closu on of the closure activities ompleted.</th> <th>re activities and submitting the closure report. The closure , Please do not complete this section of the form until an Completion Date:</th> <th></th>	Closure Report (require Instituctions: Operators are report is required to be sub- approved closure plan has b	ed within 60 days of closure completion): Sub- required to obtain an approved closure plan prior to nitted to the division within 60 days of the completio been obtained and the closure activities have been co	ection K of 19.15.17-13 NMAC o implementing any closu on of the closure activities ompleted.	re activities and submitting the closure report. The closure , Please do not complete this section of the form until an Completion Date:	
Owner Method:       On-Site Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         23         Closure Report Reparting Waste Removal Closure Feg Closed-loop Systems That Utilize Above Graund Steel Tanks or Haul-off Bins Only: Instructions: Phase identify the facility of facilities for where the liquids, drilling fluids and drill catings were disposed. Use dischment if more than two facilities were utilized.         Disposal Facility Parmit Number:       Disposal Facility Parmit Number:         Disposal Facility Parmit Number:       Disposal Facility Parmit Number:         Were utilized.       Disposal Facility Parmit Number:         Were utilized.       Disposal Facility Parmit Number:         Disposal Facility Parmit Number:       Disposal Facility Parmit Number:         Were utilized.       Disposal Facility Parmit Number:         Disposal Facility Parmit Number:       Disposal Facility Parmit Number:         Disposal Facility Parmit Number:       Disposal Facility Parmit Number:         Stee Reclamation (Photo Documentarion)       No         Stee Reclamation (Photo Documentarion)       No         Stee Report Attachment Checklist: Instructions: Each of the following lumas must be attached to the closure report. Please indicate, by a check mark in the bocumentarion at attack.         Proof of Closure Notice (starface owner and division)       Proof of Closure Notice (starface owner and division)         Proof of Obsure Notice	32				
23         Course Report Regarding Waste Remoral Closure Fac Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:         Instructions: Please identify the facility or facilities for where the liquids, drifting fluids and drift cuttings were disposed. Use attachment if more than two facilities         Vere with:ed.       Disposal Facility Permit Number:         Disposal Facility Name:       Disposal Facility Permit Number:         Disposal Facility Series demonstrate compilane to the items below)       Disposal Facility Permit Number:         Were the closed-loop system operations: and associated activities performed on or in areas that will nor be used for future service and operations?         Were the closed-loop system operations:       Disposal Facility Permit Number:         Disposal Facility Permit Number:       Disposal Facility Permit Number:         Still Reclamation (Photo Documentation)       No         Still Reclamation Application Rates and Seeding Technique       No         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.         Proof of Closure Notice (surface owner and division)       Confirmation Sampling Analytical Results (if applicable)         Disposal Facility Permit Number:       Soil Backfilling and Cover Installation         Ste Reclamation (Photo Documentation)       On-site Closure Installation         Be veg	Closure Method: Waste Excavation an If different from app	nd Removal On-site Closure Method proved plan, please explain.	Alternative Closure 1	Method Waste Removal (Closed-loop systems only)	
Instruction:       Plass identify the facility of facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities for where the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?         We the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?         State Reclamation (Photo Documentation)         Soil Backfilling and Cover Installation         Revegetation Application Rates and Seeding Technique         34         Closure Neice (surface owner and division)         Proof of Closure Notice (required for on-site closure)         Plot Plat (for on-site closures and seeding Technique         35         Consure Neice (surface owner and division)         Proof of Closure Notice (required for on-site closure)         Plot Plat (for on-site closures and temporary pits)         Confirmation Sampling Analytical Results (faphicable)         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique     <	23 Classes Base of Base 5				
were utilized.       Disposal Facility Name:       Disposal Facility Name:       Disposal Facility Name:         Disposal Facility Name:       Disposal Facility Permit Number:       Disposal Facility Permit Number:         Disposal Facility Name:       Disposal Facility Permit Number:       Disposal Facility Permit Number:         Ver the closed-loop system operations and associated activities performed on or in areas that will not be used for fature service and operations?       No         Required for impacted areas which will not be used for fature service and operations:       Sile Rechtfilling and Cover Installation         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         34       Closure Report Attachment Chocklest:       Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the documents are attached.         Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (surface owner and division)         Proof of Closure Notice (surface owner and division)       Disposal Facility Name and Permit Number:         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         Soil Backfilling and Cover Installation	Instructions: Please identifi	Waste Removal Closure For Closed-loop Systems	That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only:	
Disposal Facility Name:       Disposal Facility Permit Number:         Disposal Facility Name:       Disposal Facility Permit Number:         Were the closed-loop system operations and associated activities performed on or in area that will not be used for future service and operations?         Yes (II yes, please demonstrate complitane to the items below)       No         Required for impacted areas which will not be used for future service and operations:       Sile Reclamation (Photo Documentation)         Soil Backfilling and Cover Installation       Resvegetation Application Rates and Seeding Technique         34       Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the foot, that the documents are attached.         Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (surface owner and division)         Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (surface Results (if applicable)         Disposal Facility Name and Permit Number       Disposal Facility Name and Seeding Technique         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         Soil Backfilling and Cover Installation       Revegetation Application Rates and Seeding Technique         Disposal Facility Name and Permit Number       Soil Backfilling and Cover Installation         Revegetation Application Rates and Seeding Technique       NAD	were utilized.	one factory of factories for where the liquids, dritte	ing fluids and drill cuttin	gs were disposed. Use attachment if more than two facilitie	\$
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New Mexico Office of the State Engineer POD Reports and Downloads						
Township: 30N Range: 11W Sections:						
NAD27 X: Y: Zone: Search Radius:						
County: Basin: Number: Suffix:						
Owner Name: (First) (Last) C Non-Domestic C Domestic & All						
POD / Surface Data Report Avg Depth to Water Report Water Column Report						
Clear Form iWATERS Menu Help						

# WATER COLUMN REPORT 08/21/2008

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# Mines, Mills and Quarries Web Map

PAYNE COM 1A Unit Letter: I, Section: 26, Town: 030N, Range: 011W





#### **PAYNE COM 1A**

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'PAYNE COM 1A', which is located at 36.78027 degree, North latitude and 107.9552 degree, West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 26 of Township 30 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Aztec, located 3.6 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 14.2 miles to the west (National Atlas). The nearest highway is US Highway 550, located 1.4 miles to the west. The location is on Private land and is 235 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 1802 meters or 5910 feet above sea level and receives 11.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 77 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 177 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,927 feet to the southeast. The nearest water body is 1,915 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 20,078 feet to the southeast. 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 6,894 feet to the west. The nearest wetland is a 0.5 acre Freshwater Forested/Shrub Wetland located 19,691 feet to the northwest. The slope at this location is 2 degree, to the south as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.1 miles to the north 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.

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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).

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

#### References:

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

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

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

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

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

#### 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.
- 2. 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
- 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.



#### PROPERTIES **TEST METHOD** J30BB **J36BE** J45BE Min. Roll Typical Rolf Min. Roli Typical Roll Min. Roll Typical Roll Averages Averages Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness ASTM D 5199 27 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs ASTM D 5261 (oz/yd²) 151 lbs 168 lbs 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction \*\*Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD ASTM D 7003 113 Ibr MD 90 lbf MD 110 lbf MD 138 lbf MD 63 /bf DD 79 ibf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 ibf DD 1" Tensile Elongation @ 550 MD 750 MD ASTM D 7003 Break % (Film Break) 550 MD 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD ASTM D 7003 33 MD Peak % (Scrim Break) 20 MD 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 Ibf MD 100 lbf MD 117 /bf MD 75 lbf DD 90 /bf DD 75 ibi DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 218 lbf MD 180 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 Jbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD ASTM D 4533 130 Ibf MD 189 (bf MD 160 lbf MD 193 lbf MD 120 ibf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 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 180° F 180° F 180° F 180° F 180° F Minimum Use Temperature -70° F -70° F -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

# PLANT LOCATION

Sioux Falls, South Dakota

#### SALES OFFICE

-70° F

ARELAR

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





-70° E

#### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane, 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 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 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 fiability 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:

- 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.
- 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 50 mg/kg; the TPH 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.
- 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:**

10/06/2015

# NOTES: