1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources District II Department For te tanks. 1301 W. Grand Ave., Artesia, NM 88210 Oil Conservation Division tanks. District III 1220 South St. Francis Dr. For pe 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 For pe District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 For pe Pit, Closed-Loop System, Below-Grade Tar Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or permit Closure of a pit, closed-loop system, below-grade tank, or permit Modification to an existing permit Closure plan only submitted for an existing permitted or ne below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system Closure plan only submitted for an existing permitted or ne below-grade tank, or proposed alternative method	July 21, 2008 temporary pits, closed-loop sytems, and below-grade is, submit to the appropriate NMOCD District Office. permanent pits and exceptions submit to the Santa Fe ronmental Bureau office and provide a copy to the opriate NMOCD District Office. ank, or an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request public of write a metro of write a metro.
District II Department For te tanks. 1301 W. Grand Ave., Artesia, NM 88210 Oil Conservation Division tanks. District III 1220 South St. Francis Dr. tanks. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 For pe Enviro appropriation of the permit of a pit, Closed-Loop System, Below-Grade Tanks. District IV appropriation of a pit, closed-loop System, below-grade tank, or pice of a ction: X Permit of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system, below-grade tank, or pice of a pit, closed-loop system	temporary pits, closed-loop sytems, and below-grade s, submit to the appropriate NMOCD District Office. permanent pits and exceptions submit to the Santa Fe ronmental Bureau office and provide a copy to the opriate NMOCD District Office. The an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request public of our proposed tank or alternative request
1301 W. Grand Ave., Artesia, NM 88210 Oil Conservation Division Tanker District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 For per District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 For per Proposed Alternative Method Permit or Closure Pla Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or point of a pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	permanent pits and exceptions submit to the Santa Fe ronmental Bureau office and provide a copy to the opriate NMOCD District Office. <u>unk, or</u> <u>an Application</u> r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, <i>em, below-grade tank or alternative request</i>
District III For perform 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 For perform District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 For perform Pit, Closed-Loop System, Below-Grade Tar Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or performed closure of a pit, closed-loop system, below-grade tank, or performed closure plan only submitted for an existing permitted or new below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	permanent pits and exceptions submit to the Santa Fe ronmental Bureau office and provide a copy to the opriate NMOCD District Office. ank, or an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request public of our proposed tank or alternative request
District IV appropriation 1220 S. St. Francis Dr., Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tar Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or p Closure of a pit, closed-loop system, below-grade tank, or p Modification to an existing permit Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	ronmental Bureau office and provide a copy to the opriate NMOCD District Office. an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request polytics of wefers were graved were restrict.
Pit, Closed-Loop System, Below-Grade Tar Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or p Closure of a pit, closed-loop system, below-grade tank, or p Closure of a pit, closed-loop system, below-grade tank, or p Modification to an existing permit Closure plan only submitted for an existing permitted or n Delow-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	ank, or an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request
Proposed Alternative Method Permit or Closure Pla Type of action: X Permit of a pit, closed-loop system, below-grade tank, or Closure of a pit, closed-loop system, below-grade tank, or Other of a pit, closed-loop system, below-grade tank, or Modification to an existing permit Other of a pit, closed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	an Application r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, em, below-grade tank or alternative request
Type of action: X Permit of a pit, closed-loop system, below-grade tank, or p Closure of a pit, closed-loop system, below-grade tank, or Modification to an existing permit Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, <i>em, below-grade tank or alternative request</i>
Type of action: X Permit of a pit, closed-loop system, below-grade tank, or Closure of a pit, closed-loop system, below-grade tank, or Modification to an existing permit Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system, <i>em, below-grade tank or alternative request</i>
Closure of a pit, closed-loop system, below-grade tank, or Modification to an existing permit Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	non-permitted pit, closed-loop system, em, below-grade tank or alternative request
Modification to an existing permit Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system Please be educed that approach of the application results of the presence of lightling should compliant tangents.	non-permitted pit, closed-loop system, em, below-grade tank or alternative request
Closure plan only submitted for an existing permitted or n below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system Please he eduied that approach of this parameter of lighting the closed-loop system	non-permitted pit, closed-loop system, em, below-grade tank or alternative request
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system	em, below-grade tank or alternative request
Discase he advised that approval of this request does not relieve the approximation of lightline should approximate result in possible	pollution of surface water group durates or the
Prease be advised that approval of this request does not reneve the operator of haonity should operations result in po	pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governme	nental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources Oil & Gas Company, LP OGRI	RID#: 14538
Address: PO Box 4289. Farmington. NM 87499	
Facility or well name: DUSENBERRY 1B	
A DI Number: 2004520005 OCD Parmit Number:	
API Number: 3004530005 OCD Permit Number.	
U/L or Qtr/Qtr: F Section: 6 Township: 31N Range: 11W	County: San Juan
Center of Proposed Design: Latitude: 36.9285°N Longitude: -108	18.03195°W NAD: X 1927 1983
Surface Owner: Federal X State Private Tribal Trust or Indian Allotr	
2 Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation Lined Unlined Liner type: Thickness mil LLDPE String-Reinforced Iner Seams: Welded Factory Other Volume: bbl	E PVC Other Dimensions L x W x D
3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activitie notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE Liner Seams: Welded Factory Other	ties which require prior approval of a permit or
4 X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic o Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other	overflow shut-off
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental	

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, institution or church) Four fact height four strands of barbed wire averally speed between one and four four.										
Four toot height, tour strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.										
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)										
 8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC 										
9 <u>Administrative Approvals and Exceptions:</u> 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.										
Siting Criteria (regarding permitting): 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 helow-grade tanks)										
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes	No								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image										
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 - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo								
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo								
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 Society: Topographic map	Yes	XNo								
Within a 100-year floodplain - FEMA map	Yes	XNo								

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 10.15.17.0 NMAC
Design Plan, based upon the appropriate requirements of 10.15.17.11 NMAC
Operating and Maintenance Plan, based upon the appropriate requirements of 10,15,17,12 NMAC
NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Dike Protection and Structural Integrity Design hand upon the appropriate requirements of 19.15.17.11 NMAC
Lizk Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
4 Proposed Closures 10.15.17.13 NR44C
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: XWaste Excavation and Removal (Polary Crade Tork)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
The set of
Confirmation Sampling Plan (if applicable), based upon the appropriate requirements of Subsection E of 10, 15, 17, 12 NIMAC
X Disposal Facility Name and Permit Number (for liquids drilling fluids and drill cuttings)
\mathbf{X} Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC
Les and the second and appropriate requirements of duscention of or 17.15.17.15 (MMAC.

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel	Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fare required.	uids and drill cuttings. Use attachment if more than two f	acilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	occur on or in areas that will not be used for future se	ervice and operations?
Required for impacted areas which will not be used for future service and operations:		
Soil Backfill and Cover Design Specification - based upon the appropriat	e requirements of Subsection H of 19.15.17.13 NMAG	С
Site Reclamation Plan - based upon the appropriate requirements of Subs	ection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC		
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Re	commendations of acceptable source material are provided belo	w. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalency are required.	may be considered an exception which must be submitted to the Please refer to 19.15.17.10 NMAC for guidance.	Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ed from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried water		
 NM Office of the State Engineer - iWATERS database search: USGS: Data obtain 	ed from nearby wells	
and only of the one engineer in an end of an order of the		
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	∐N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significat (measured from the ordinary high-water mark).	at watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map: Visual inspection (certification) of the proposed site		·
Within 300 feet from a permanent residence, school, hospital, institution, or church in ex - Visual inspection (certification) of the proposed site: Aerial photo; satellite image	istence at the time of initial application.	Yes No
		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 	five households use for domestic or stock watering ce at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well	field covered under a municipal ordinance adopted	Yes No
pursuant to NMSA 1978, Section 3-27-3, as amended.	and Group Alexandrichter Harris	
Within 500 feet of a wetland	ed from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspec	tion (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
- Written confirantion or verification or map from the NM EMNRD-Mining and Min	eral Division	
Within an unstable area.		Yes No
 Engineering measures incorporated into the design: NM Bureau of Geology & Mine Topographic map 	ral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain.		Yes No
18 On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of	the following items must be attached to the de-	
by a check mark in the box, that the documents are attached.	ine following nems must bee anached to the closure	pian. riease inaicaie,
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	of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 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	quirements 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	H of 19.15.17.13 NMAC	

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC

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

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19 Annual description Constitutions	
Operator Application Certification: Thereby certify that the information submitted with this application is true acc	curate and complete to the best of my knowledge and belief
Name (Print): Crastal Cafava	Title: Roudstory Tachnician
Signature: Capital la jour	Date: 12/22/2008
e-mail address:	
20	
OCD Approval: Permit Application (including closure plan)	Closure Plan (only) [OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within by days of closure completion): Sur Instructions: Operators are required to obtain an approved closure plan prior	(b) b) b
report is required to be submitted to the division within 60 days of the complet	tion of the closure activities. Please do not complete this section of the form until an
approved closure plan has been obtained and the closure activities have been	completed.
	Closure Completion Date:
22 Cleance Method:	
Waste Excavation and Removal	Alternative Closure Method Waste Removal (Closed-Joon systems only)
If different from approved plan please explain	Anternative closure include
23	
Closure Report Regarding Waste Removal Closure For Closed-loop System	ms That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
instructions: riease identify the facility or facilities for where the liquids, art were utilized.	nning junas and arm cumings were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed	d on or in areas that will not be used for future service and opeartions?
Yes (If yes, please demonstrate compliane to the items below)	No
Required for impacted areas which will not be used for future service and o	operations:
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24	
Closure Report Attachment Checklist: Instructions: Each of the fold	llowing 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)	
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	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude:	Longitude:NAD [1927 [1983
	· · · · · · · · · · · · · · · · · · ·
25	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure	re report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions sp	pecified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e mail address	Telenhone
C-High duit55.	receptione.

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New Mexico Office of the State Engineer POD Reports and Downloads

	Township: 32N	Range: 12W S	ections:			
	NAD27 X:	Y:	Zone:	Search	Radius:	
County	y: 🗾 Ba	asin:	V	Number:	Suffix:	
Owner	Name: (First)	(Last)		C Non-Do	omestic C Domestic	ه All
	DOD / Curface Date Date	Ava De	enth to Water F	Report	Water Column Report	

WATER COLUMN REPORT 08/21/2008

	(quarters (quarters	are are	1=) bi	NW gg(2: est	=NE t to	3=SW small	4=SE) lest)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	P	đ	a	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	

Record Count: 6

Tow	nship: 32N	Range: 1	1W	Sections:		
NAD27	X:	Y:		Zone:	Search Radiu	5:
County:	Bas	n:			Number:	Suffix:
Owner Name: (Fi	rst)	((Last)		○ Non-Domestic	⊖ Domestic
POD / Surfa	ce Data Repo	nt C	Avg	Depth to Water F	Report Wate	er Column Report
	[Clear For	m	iWATERS Men	Help	

	(quarter: (quarter:	s are s are	a 1=1 a big	nw gg@	2= est	=NE to	3=SW 4=SE) smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	g	đ	g	Zone	х	Y	Well	Water	Column	
SJ 01360	32N	11W	19	2	2					180	155	25	
SJ 01327	32N	11W	23	2	2	3				90	50	40	
SJ 00021	32N	11W	23	3						585			
SJ 00017	32N	11W	24	2						105			
SJ 00020	32N	11W	29	3						588			
SJ 00026	32N	11W	33	2						321			

Record Count: 6

	Township: 31N	Range: 11W	Sections:		
N	AD27 X:	Y:	Zone:	Search Rad	ius:
County:	Bas	in:		Number:	Suffix:
Owner Name	e: (First)	(Last))	O Non-Domest	ic 🔿 Domestic 💿 All
POD	/ Surface Data Repo	rt Av	g Depth to Water	Report Wa	ater Column Report

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	1=NV	1 2:	=NE	3=SW 4=	SE)							
	(quarter	s are	bigg	rest	t to	smalle	st)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng S	lec q	PI	g	Zone	2	C	Y	Well	Water	Column		
SJ 02395	31N	11W 1	3 1	. 1	3					95	35	60		
SJ 01640	31N	11W 1	3 2	4						32	7	25		
SJ 01551	31N	11W 1	3 2	4						64	42	22		
SJ 00560	31N	11W 1	3 2	4						39	25	14		
SJ 01729	31N	11W 1	3 2	4						48	28	20		
SJ 01541	31N	11W 1	3 3							52	3.0	22		
SJ 01539	31N	11W 1	3 3						,	52	30	22		
SJ 00946	31N	11W 1	3 3	3						135	100	35		
SJ 01540	31N	11W 1	3 4							52	30	22		
SJ 01879	31N	11W 1	3 4							26	8	18		
SJ 01801	31N	11W 1	3 4							22	15	7		
SJ 03413	31N	11W 1	3 4	2						60				
SJ 03412	31N	11W 1	3 4	2						60				
SJ 03736 POD1	31N	11W 1	3 4	2	1					19	6	13		
SJ 02495	31N	11W 1	3 4	2	1					28	12	16		
SJ 03623	31N	11W 1	3 4	2	1					30	16	14		
SJ 03264	31N	11W 1	3 4	2	2					20	11	9		
SJ 03124	31N	11W 1	3 4	2	4					20	5	15		
SJ 03125	31N	11W 1	3 4	2	4					20	5	15		
SJ 03712 POD1	31N	11W 1	3 4	3	1					19	11	8		
SJ 03018	31N	11W 1	3 4	3	4					20	8	12		
SJ 03670	31N	11W 1	3 4	3	4					26	10	16		
SJ 01538	31N	11W 1	3 4	4						52	30	22		
SJ 01683	31N	11W 1	3 4	4						45	25	20		
SJ 01731	31N	11W 1	3 4	4						43	25	. 18		
SJ 01644	31N	11W 1	3 4	4						23	6	17		
SJ 02149	31N	11W 1	3 4	4						35				
SJ 01645	31N	11W 1	3 4	4						22	6	16		
SJ 01767	31N	11W 1	3 4	4						42	18	24		
SJ 01730	31N	11W 1	3 4	4						40	24	16		
SJ 01699	31N	11W 1	3 4	4						42	12	30		
SJ 01609	31N	11W 1	3 4	4						40	18	22		

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SJ 01537	31N	11W 13	4	4				-		
SJ 01542	31N	11W 13	4	4				52	28	24
SJ 01663	31N	111 13	4	1						
SJ 02093	31N	111/113	Λ	A	1+7	170700		45	25	20
SJ 03440	31N	116/ 13		л 1	υv	4/0/00	2143800	40	20	20
SJ 03084	31N	1111 13	1	4 2				20	6	1.4
SJ 03085	31N	1111 13	- <u>+</u> A	4 2				19	11	8
SJ 02801	31N	1111 13	-1	4 2				18	8	10
SJ 03064	RIN	1110 13	4	4 3				.36	5	31
SJ 01142	31N	11 TAT 12	4	4)			-9	45		
SJ 02838	31N	1161 12	4	4 4				30	8	22
SJ 02855	31N	1157 10	4	4 4				38	10	28
SJ 01173	31 M	1167 13	4	4 4				31		
SJ 02289	31N		4	4 4				46	28	18
SJ 03458	21N	11W 13	4	4 4				45	16	2.9
SJ 02978		11W 19	3	34				140		4.9
ST 01817	JIN J	11W 23	2	13				800		
SJ 02129		11W 23	2	4				65	20	45
SJ 02161		LIW 23	2	4				72	3.5	37
SJ 01600	31N 1	LLW 23	3	4				40	25	15
SJ 02124		LIW 24	1	-				30	6	24
SJ 03755 POD1	31N 1	LIW 24	1	1				55	40	15
SJ 03695 POD1	3117 1	1W 24	1	4		269112	2142037	27	7	20
SJ 03695 POD	31N 1	1141 2/1	1	42				25	13	12
SJ 03696	31N 1	114 24	1 1	42				25	13	12
SJ 03695	31N 1	1 1 2 2 4	1	4 2				24	12	12
SJ 03696 POD1	31N 1	1 67 24	1	* 2				25	13	12
SJ 01559	31N 1	1W 24	2	* 2				24	12	12
SJ 01744	31N 1	1W 24	2 3	,				50	27	23
SJ 01375	31N 1	1W 24	2 2	2				44	20	24
SJ 01986 S	31N 1	1W 24	2 2	2 2				30	11	19
SJ 01986	31N 1	1W 24	2 2	2				45	30	15
SJ 00555	31N 1	1W 24	2 2	4				38	21	17
SJ 03408	31N 1	1W 24	2 3	1				60	19	41
SJ 02928	31N1	1W 24	2 3	2				20	ΤT	15
SJ 02924	31N 13	1W 24	2 3	2				33	10	1.0
SJ 02846	31N 11	1W 24	2 3	3				15	10	18
SJ 02888		1W 24	2 3	3				65	10	21
SJ 03650	_ 31N 13	1W 24	23	3				32	15	17
SJ 00555 X	31N 11	LW 24	2 4	1.1				58	20	10
SU 02039	31N	LW 24	24	1				5.5	19	19
ST 02758		LW 24	2 4	1				60	40	20
SJ 02791	_ JIN 11	LW 24	2 4	2				69	51	18
SJ 00379	31N 11	W 24	24	2				74	54	20
SJ 00365	_ 31N 11	W 2.4	24	4				65	40	25
SJ 01670	_ JIN II	-W Z4	24	4				71	40	31
SJ 00287	31N 11	W 24	3	4				45	27	18
SJ 01553	31N 11	W 24 W 24	52	4				38	6	32
SJ 02171	31N 11	TAT 24	54 24	Э				44	35	9
SJ 01366	31N 11	107 24	34 11	3				45	25	20
SJ 02644	31N 11	M 24 ·	49 I 1/1	4				30	11	19
SJ 00913	31N 11	1 24 A	±⊥ 1 ⊃	4				45	18	27
SJ 01405	31N 11	M 24 4	t J A J					81	55	26
SJ 01455	31N 11	M 24 4	C ±	A.				30	9	21
SJ 01047	31N 11	INT 24 4	د ±	4				101	66	35
SJ 00405	31N 11	M 24 4	±) 1.)	ч 1				205	70	135
SJ 03438	31N 11	M 2/1 /	נ ± ג ו	4				69	42	27
SJ 03045	31N 11	W 25 1	= +± //	-± /i				40		
		N 4J 1	4	4				200		

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SJ 02499	31N	11W 25	2 1 1			66	45	21
SJ 03198	31N	11W 25	3 3 1			600	100	500
SJ 02834	31N	11W 25	3 3 3			200	160	40
SJ 03450	31N	11W 25	3 3 3			144	95	49
SJ 03126	31N	11W 26	1 1 1			41	21	2.0
SJ 01233	31N	11W 26	1 4			49	27	22
SJ 03158	31N	11W 26	1 4 2			280	25	255
SJ 00675	31N	11W 26	1 4 3			36	22	14
SJ 02887	31N	11W 26	144			51	28	23
SJ 02898	31N	11W 26	2 1 4			50		
SJ 01789	31N	11W 26	3 1			29	12	17
SJ 00705	31N	11W 26	3 1 1			18	8	10
SJ 00371	31N	11W 26	3 1 2			29	9	20
SJ 03323	31N	11W 26	3 1. 4			30	6	24
SJ 00363	31N	11W 26	3 1 4			25	5	20
SJ 01545 X	31N	11W 26	3 3			27	10	17
SJ 00926	31N	11W 26	4 1			62	32	30
SJ 01519	31N	11W 26	4 2			69	47	2.2
SJ 01620	31N	11W 26	4 2			67	26	41
SJ 00610	31N	11W 26	4 2			80	50	30
SJ 02011	31N	11W 26	4 2			55	38	17
SJ 01628	31N	11W 26	4 2			66	25	41
SJ 03697 POD1	31N	11W 26	4 2 3			80	50	30
SJ 00562	31N	11W 26	4 3			40	20	20
SJ 00561	31N	11W 26	4 3			38	20	18
SJ 01042	31N	11W 26	4 4			100	30	70
SJ 00494	31N	11W 26	4 4			88	60	2.8
5J 02482	31N	11W 27	4 1 2			75	55	20
SJ 03600	31N	11W 27	4 2 1			51	39	12
SJ 03540	31N	11W 27	4 2 1			40	21	19
SJ 03772 POD1	31N	11W 27	4 2 1	268239	2135717	41	30	11
SJ 02914	31N	11W 27	4 2 3			25	15	10
SJ 02468	31N	11W 27	4 2 3			49	30	19
SJ 02656	31N	11W 27	4 2 4			21	9	12
SJ_02871	31N	11W 27	4 2 4			22	11	11
SJ 02215	31N	11W 27	4 3			54	23	31
SJ 02676	31N	11W 27	4 3			19	7	12
SJ 03247	31N	11W 27	4 3 1			70		
SJ 03505	31N	11W 27	4 3 3			50	14	36
50 02549	31N	11W 27	4 3 3			49	30	19
SJ 02853	31N	11W 27	4 3 4			22	6	16
5J 02984	31N	11W 27	4 4 1			20		
SJ USI81	J LN J LN	11W 27	4 4 1			19	10	9
SU 01004	2 1 M	11W 30	4 2 3			71	30	41
SU 01739	21N	11W 30	4 2 4			98	30	68
50 01134 ST 01934	31M	11W 30	4 2 4			190	150	40
30 01034	31M	1110 20	4 2 4			103	30	73
ST 01395	31M	111 30	4 4 1 1 1			100	40	60
ST 00970	31N	1110 30				80	57	23
ST 01811	31 M	1111 21	2 4 4			110	80	30
5.7 02994	3111		4 2 2			89	50	39
ST 02993			4 3 2			300	200	100
ST 01137	3.1 M					280	T00	.120
ST 02277	21M		4 4 4			37	19	18
ST 02167	3 1 M	11M 24	1 4			16	1	9
ST 01533	VITC VITC	11m 24	1 4 1 1			83	69	14
ST 01251	S 1 M	11M 34	1 4 1 A			58	40	18
ST 03211	JLIN	111-7 34	1 4 1			79	65	14
A AAATT	JINC	1111 34	1 4 1			24	14	10

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G.T	01125	2.1 1.1	1151 34	1	4 0					
	01125	JIN	I .I.I.W .34	T	4 2			59	42	17
80	01657	31N	11W 34	2				20	6	14
SJ	01675	31N	11W 34	2				33	7	14
SJ	00632	31N	11W 34	2				25		20
SJ	01656	31N	11W 34	2				20	/	18
SJ	00656	31M	1161 24	2				20	6	14
C.T	00631	O 1 NY	1110 24	4				30	8	22
0.7	02440	D 1 10	11W 34	2				30	11	19
50	03448	31N	11W 34	2	1			41	21	20
SJ	01267	31N	11W 34	2	1		1	65	45	20
SJ	01618	31N	11W 34	2	1			28	9	20
SJ	01840	31N	11W 34	2	1 1			65	25	20
SJ	03316	31N	11W 34	2	1 1			20	20	40
SJ	00660	31N	11W 34	2	1 1			30	10	2.0
SJ	01768	31M	111 34	2	 -			50	30	20
S.T	01721	211	1110 74	2.	2			20	6	14
0.7	02172	DIN 21M	11W 34	2.	2			22	10	12
30	03172	31N	IIW 34	2 2	2 2			19	7	12
SJ	03047	31N	11W 34	2 2	2 4			19	6	13
SJ	02119	31N	11W 34	2 3	3			11	3	
SJ	02113	31N	11W 34	2 3	3			12	1	0
SJ	00659	31N	11W 34	2 3	3			22	1.1	8
SJ	00661	31N	11W 34	2 -	3 1			55	11	22
SJ	02972	31N	11W 34	2 3	3 1			52	32	20
SJ	03107	31N	1114 34	2 2	1 1			15	5	10
ST	03106	31M	1147 24	2 5	±⊥ • 1			18	8	10
C.T	03193	21M	11W 34	2 4	ŧ ⊥			25		
0.7	03700 0001	D 1 N	11W 34	24	4 4			19	6	13
30	03780 PODI	31N	11W 34	3 1	. 2	267922	2130341	28	12	16
50	02859	31N	11W 34	3 1	. 4			22	6	16
SJ	02967	31N	11W 34	3 2	2 3			20	5	15
SJ	02856	31N	11W 34	32	3			2.4	6	19
SJ	02852	31N	11W 34	3 2	3			23	7	10
SJ	03065	31N	11W 34	3 2	3			20	7	10
SJ	03025	31N	11W 34	3 2	2			22	/	15
SJ	03014	31N	11W 34	3 2	1			42	5	17
SJ	03002	31N	11107 34	2 2	4			30	5	- 25
SJ	02861	31M	1161 24	2 2	1			22		
C.T	03220	D 1 NT	11W 34	3 3	T			21	7	14
C T	03042	D 1 M	11W 34	33	T			20	6	14
30	03042	31N	11W 34	3 3	2			23	6	17
50	03710 POD1	31N	11W 34	3 3	2			20	4	16
SJ	03048	31N	11W 34	3 3	4			21	4	17
SJ	02857	31N	11W 34	3 4	1 ·			23	6	17
SJ	03492	31N	11W 34	34	2			30	0	11
SJ	03631	31N	11W 34	3 4	2			27	6	21
SJ	03493	31N	11W 34	3 4	2			25	15	21
SJ	03357	31N	11W 34	3 4	2			22	TO	10
SJ (03260	31N	11W 34	3 4	4			24	0	16
SJ (03609	31N	11W 34	3 1	1			41	3	38
SJ I	01608	31N	111 31	1	-4			27	6	21
SJT (3720 POD1	31N	11147 24	4± 1/1	2			48	17	31
S.T.	3497	21 M	1114 24	4 1	3			21	6	15
CT (12402	SIN	11W 34	4 1	4			30	10	20
	33402	JIN	11W 34	4 1	4			25		
ວປ (133/1	31N	11W 34	4 2	4			20	2	18
SJ (3016	31N	11W 34	4 3	1			35	-	10
SJ (3739 POD1	31N	11W 34	4 3	1			25	3	• 11
SJ (2966	31N	11W 34	4 3	3			4.0	2	42
SJ (0985	31N	11W 34	4 1	-			40	20	28
SJ (2827	31N	11W 35	1 1	2			40	10	24
SJT (3371	31 M		1 1	ے ۲			60		
G.T C	12902	J LIV	11W 35	1 1	3			21	5	16
о <u>о</u> (а.т. /	2007	NITC	11W 35	1 1	ک			19	5	14
ວບູ່ໃ	4071	JIN	11W 35	1 3	1			17	6	1 1

New Mexico Office of the State Engineer

SJ 00333 31N 11W 35 1 3 4 SJ 03760 POD1 31N 11W 35 1 4 1 SJ 03543 31N 11W 35 144 SJ 01144 31N 11W 35 1 4 4 31N SJ 01319 11W 35 2 2 2 SJ 00185 31N 11W 35 2 3 SJ 03676 31N 11W 35 2 3 1 SJ 03560 31N 11W 35 2 3 2 SJ 03165 31N 11W 35 2 4 4 SJ 03166 31N 11W 35 2 4 4 SJ 00983 31N 11W 35 3 SJ 00939 31N 11W 35 3 SJ 00940 31N 11W 35 3 1 SJ 01580 31N 11W 35 3 1 1 SJ 02932 31N 11W 35 3 1 2 SJ 02933 31N 3 1 2 11W 35 SJ 03574 31N 11W 35 3 1 4 SJ 00591 31N 11W 35 3 1 4

31N

31N

11W 35

11W 35

3 2

4 2

		30	6	24
268465	2130772	43	12	31
		61	30	31
		55	30	25
			155	
		54		
		52	19	33
		62	32	30
		20		
	4	20		
		110	7.0	40
		60	30	30
		64	15	49
		65	30	35
		27	14	13
		37	24	13
		100		
		83	54	29
		60	30	30
		37	19	18

Record Count: 229

SJ 00939 1

SJ 00713

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D27 X:	Y:	7		
		Zone:	Search Radiu	18:
Ba	sin:		Number:	Suffix:
(First)	(Last)		○ Non-Domestic	Domestic All
Surface Data Rep	ort Avg	Depth to Water F	Report Wat	er Column Report
	(First) Gurface Data Rep	Basin: (First) (Last) Surface Data Report Avg	Basin: (Last) Gurface Data Report Avg Depth to Water F	Basin: Number: (First) (Last) Onon-Domestic Surface Data Report Avg Depth to Water Report Water

WATER COLUMN REPORT 08/20/2008

	(quarters	s are	1=N	IW 2	=NE	3=SW 4=SE)							
	(quarters	s are	big	ges	st t	o smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	g q	PI	Zone	x	Y	Well	Water	Column		
SJ 03488	31N	12W	01	3 3	3 2				150				
SJ 03738 POD1	31N	12W	01	4 1	. 3				115	50	65		
SJ 02034	31N	12W	01	4 3	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				
SJ 02904	31N	12W	80	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



ConocoPhillips

DUSENBERRY 1B AERIAL MAP



Aerial flown locally Sedgewick in 2005.

1000FT

300FT

1:6,000

NAD_1983_SP_ NM West_FIPS_3003 8/08

Mines, Mills and Quarries Web Map

DUSENBERRY 1B

Unit Letter: F, Section: 06, Town: 031N, Range: 011W





Dusenberry 15



DUSENBERRY 1B

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'DUSENBERRY 1B', which is located at 36.9285 degrees North latitude and 108.03195 degrees West longitude. This location is located on the Abode Downs Ranch 7.5' USGS topographic quadrangle. This location is in section 6 of Township 31 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan county, New Mexico. The nearest town is Aztec, located 7.7 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 16.5 miles to the southwest (National Atlas). The nearest highway is State Highway 574, located 2.8 miles to the southwest. The location is on BLM land and is 444 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 1983 meters or 6504 feet above sea level and receives 14.5 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 216 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 named Dusenberry Glade and is 1,082 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Lawson Glade and is 4,330 feet to the north. The nearest water body is 4,330 feet to the north. It is classified by the USGS as an intermittent lake and is 0.9 acres in size. The nearest spring is 16,013 feet to the east. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,770 feet to the southwest. There is no wetland data available for this area. The slope at this location is 2 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 SAN JOSE FORMATION ---Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Atrac-Florita-Travessilla association, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 4.1 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aguifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

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 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.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



PROPERTIES **TEST METHOD** J30BB **J36BB J45BE** Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Averages Typical Roll Averages Averages Averages Appearance Averages Averages Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mil 30 mil 32 mil 36 mil 40 mil Weight Lbs Per MSF 45 mil 126 lbs 140 lbs (oz/yd²) ASTM D 5261 151 lbs 168 lbs 189 lbs (18.14)210 lbs (20.16)(21.74)(24.19)(27.21)Construction (30.24)**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 90 lbf MD ASTM D 7003 113 lbf MD 110 lbf MD 63 lbf DD 79 lbf DD 138 lbf MD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD Break % (Film Break) ASTM D 7003 750 MD 550 MD 750 MD 550 DD 550 MD 750 MD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD Peak % (Scrim Break) **ASTM D 7003** 33 MD 20 MD 30 MD 20 MD 20 DD 36 MD 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 lbf MD 100 lbf MD 75 lbf DD 117 lbf MD

90 lbf DD

218 lbf MD

210 /bf DD

146 lbf MD

141 lbf DD

< 0.5

64 lbf

180° F

-70° F

MD =	Machine	Direction
DD -	Disease	

Grab Tensile

Trapezoid Tear

* Dimensional Stability

Maximum Use Temperature

Minimum Use Temperature

Puncture Resistance

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

75 lbf DD

180 lbf MD

180 lbf DD

130 lbf MD

130 lbf DD

<1

65 lbf

180° F

-70° F

92 lbf DD

222 lbf MD

223 lbf DD

189 lbf MD

172 lbf DD

<0.5

83 lbf

180° F

-70° F

100 lbf DD

220 lbf MD

220 lbf DD

160 lbf MD

160 lbf DD

<1

80 lbf

180° F

-70° F

118 lbf DD

257 lbf MD

258 lbf DD

193 lbf MD

191 lbf DD

< 0.5

99 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

180 lbf MD

180 lbf DD

120 lbf MD

120 lbf DD

<1

50 lbf

180° F

-70° F

ASTM D 7004

ASTM D 4533

ASTM D 1204

ASTM D 4833

**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

AVEN INDUSTRIES

PLANT LOCATION Sioux Falls, South Dakota

SALES OFFICE

30, 136 & 14

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



D = Diagonal Directions
OURA-SERIM'

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 consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree

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, at its 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 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 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 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:

- 1. 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
- 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 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 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.
- 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, nonwaste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name
- 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 belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation

 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice