District I 1625 N. French Dr., Hobbs, NM 88240 REGISTE 1000 Rio Diatos Anna <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Energy Minerals a	New Mexico nd Natural Resources tment tion Division t. Francis Dr. NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks. submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
I	Pit, Closed-Loop Sys		de Tank, or are Plan Application
Instructions: Please submit one app Please be advised that approval of the	Closure of a pit, closed-lo Modification to an existin Closure plan only submit below-grade tank, or prop clication (Form C-144) per his request does not relieve the operato	bop system, below-grad ag permit ted for an existing perr bosed alternative metho individual pit, closed-l or of liability should operation	e tank, or proposed alternative method de tank, or proposed alternative method nitted or non-permitted pit, closed-loop system, od <i>loop system, below-grade tank or alternative request</i> s result in pollution of surface water, ground water or the ole governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources Oil &	& Gas Company, LP		OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington,		_	
Facility or well name: LUCERNE A 3			
API Number: 300 U/L or Qtr/Qtr: M Section Center of Proposed Design: Latitude: Surface Owner: Federal []	3 Township: 3 36.92276°N 36.92276°N State X Private	OCD Permit Num	10W County: San Juan -107.87424°W NAD: X 1927
	ver itation P&A r type: Thickness	mil LLDPE	HDPE PVC Other bbl Dimensions L x W x D
	notice Steel Tanks Haul-off Bi ype: Thickness	of intent)	to activities which require prior approval of a permit or
4 X Below-grade tank: Subsection I o Volume: 120 bbl Tank Construction material:	Type of fluid: Produ Metal ction X Visible sidewal Visible sidewalls only	iced Water Is, liner, 6-inch lift and an Other PVC XOther	utomatic overflow shut-off Unspecified
Alternative Method: Submittal of an exception request is required.	red. Exceptions must be subm	itted to the Santa Fe Envi	ronmental Bureau office for consideration of approval.
Form C-144	Oil C	onservation Division	Page 1 of 5

6 <u>Fencing:</u> 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, in:	stitution or chi	urch)							
Four foot height, four strands of barbed wire evenly spaced between one and four feet									
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.									
7									
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)									
X Screen Netting Other									
Monthly inspections (If netting or screening is not physically feasible)									
8 Signs: Subsection C of 19.15.17.11 NMAC									
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers									
X Signed in compliance with 19.15.3.103 NMAC									
9									
Administrative Approvals and Exceptions:									
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.									
Please check a box if one or more of the following is requested, if not leave blank:									
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.									
10									
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 below-grade tanks)	NA								
- 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.	Yes	No							
(Applied to permanent pits)	XNA								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	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							
 Written communicities of vertication from the manerparty, written approval obtained from the manerparty 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.	TYes	XNo							
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map									
Within a 100-year floodplain - FEMA map	Yes	XNo							

Temporary Pits , Emer	gency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
and the second se	ollowing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
	eport (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
	ata (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
	ompliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
	ed upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Ma	aintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	ase complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of C and 19.15.17.13 NMAC
	Design (attach copy of design) API or Permit
12 Closed-loop Systems Pe	ermit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the fe	ollowing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. drogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Co	ompliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
	ed upon the appropriate requirements of 19.15.17.11 NMAC
	aintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	ase complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15	5.17.13 NMAC
Previously Approved	Design (attach copy of design) API
Previously Approved	Operating and Maintenance Plan API
13	
	Application Checklist: Subsection B of 19.15.17.9 NMAC
	following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
	eport - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
	mpliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Fac	
	ring Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection ar	nd Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Du	esign - based upon the appropriate requirements of 19.15.17.11 NMAC
	ns and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC mulity Assurance Construction and Installation Plan
	intenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Nuisance or Have	ertopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	share Oders in to the USE D of D
	rdous Odors, including H2S, Prevention Plan
Emergency Respon	rdous Odors, including H2S, Prevention Plan nse Plan
Oil Field Waste St	rdous Odors, including H2S, Prevention Plan nse Plan Iream Characterization
Oil Field Waste St	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan
Oil Field Waste St Monitoring and In: Erosion Control Pl	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan
Oil Field Waste St Monitoring and In: Erosion Control Pl	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan
Oil Field Waste St Oil Field Waste St Ontrol Pl Erosion Control Pl Closure Plan - base	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Oil Field Waste St Monitoring and In: Erosion Control Pl Closure Plan - base Cosed Closure: 19.1	rdous Odors, including H2S, Prevention Plan inse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Oil Field Waste St Oil Field Wa	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC ete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan.
Oil Field Waste St Monitoring and In: Erosion Control Pl Closure Plan - base Closure: 19.1 nstructions: Please complet Sype: Drilling W	rdous Odors, including H2S, Prevention Plan inse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Oil Field Waste St Monitoring and In: Crossion Control Pl Closure Plan - base Closure Plan - base Closure: 19.1 nstructions: Please complet Sype: Drilling W Alternative	rdous Odors, including H2S, Prevention Plan inse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Oil Field Waste St Monitoring and In: Crossion Control Pl Closure Plan - base Closure Plan - base Closure: 19.1 Instructions: Please complet Sype: Drilling W Alternative	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System : XWaste Excavation and Removal (Below-Grade Tank)
Oil Field Waste St Monitoring and In: Crossion Control Pl Closure Plan - base Closure Plan - base Closure: 19.1 nstructions: Please complet Sype: Drilling W Alternative	rdous Odors, including H2S, Prevention Plan inse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System : XWaste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
Oil Field Waste St Monitoring and In: Crossion Control Pl Closure Plan - base Closure Plan - base Closure: 19.1 Instructions: Please complet Sype: Drilling W Alternative	rdous Odors, including H2S, Prevention Plan nse Plan Iream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC ete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System : 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)
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Oil Field Waste St Monitoring and In: Crossion Control Pl Closure Plan - base Closure: 19.1 Instructions: Please complet Sype: Drilling W Alternative	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System : 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)
Oil Field Waste St Monitoring and In: Crosion Control PI Closure Plan - base Closure	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC tet the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System : 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 On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Oil Field Waste St Oil Field Waste St Oil Field Waste St Onitoring and In: Crosion Control Pl Closure Plan - base Closure Pla	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC 15.17.13 NMAC 15.17.13 NMAC 15.17.13 NMAC 15.17.13 NMAC 15.17.13 NMAC 16.1000 Systems on P&A Permanent Pit Below-grade Tank Closed-loop System 17.17.12 NMAC 18.12 (Below-Grade Tank) 19.12 (Closed-loop systems only) 10.12 (Closed-loop systems only) 10.12 (Closed-loop systems only) 10.12 (Closed-loop systems only) 10.13 (Closed-loop systems only) 11.13 (Closed-loop systems only) 12.13 (Closed-loop systems only) 13.14 (Closed-loop systems only) 14.15 (Closed-loop systems only) 15.17 (Closed-loop systems only) 16.15 (Closed-loop systems only) 16.15 (Closed-loop systems only) 16.15 (Closed-loop systems only) 16.15 (Closed-loop systems only) 17.13 (Closed-loop systems only) 17.13 (Closed-loop systems only) 18.15 (Closed-loop systems only) 19.15 (Closed-loop systems only) 10.15 (Closed-loop systems only) 10.15 (Closed-loop systems only) 10.15 (Closed-loop systems only) 11.15 (Closed-loop systems only) 11.15 (Closed-loop systems only) 12.15 (Closed-loop systems only) 13.15 (Closed-loop systems only) 14.15 (Closed-loop systems only) 15.15 (Closed
Oil Field Waste St Oil Field Waste St Oil Field Waste St Onitoring and In: Crosion Control Pl Closure Plan - base Closure Pla	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System (Below-Grade Tank) Waste Excavation and Removal (Below-Grade Tank) Con-site Closure Method (only for temporary pits and closed-loop systems) Charles Burial Consult Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Oil Field Waste St Monitoring and In: Crosion Control PI Closure Plan - base Alternative Proposed Closure: 19.1 Alternative Proposed Closure Method: State Excavation and H Please indicate, by a check Telease indicate, by a check Content of the check Content	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System 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 Buriat On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan mark in the box, that the documents are attached. edures - based upon the appropriate requirements of 19.15.17.13 NMAC
Oil Field Waste St Monitoring and In: Crossion Control PI Closure Plan - base Alternative Proposed Closure: 19.1 Closure Plan - base Closure Plan	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System 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 Buriat On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan mark in the box, that the documents are attached. edures - based upon the appropriate requirements of 19.15.17.13 NMAC
Oil Field Waste St Monitoring and In: Closure Plan - base Closure	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Swate Excavation and Removal (Below-Grade Tank) Maste Excavation and Removal (Below-Grade Tank) Closed-loop systems only) Con-site Closure Method (only for temporary pits and closed-loop systems) Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan mark in the box, that the documents are attached. redures - based upon the appropriate requirements of 19.15.17.13 NMAC lame and Permit Number (for liquids, drilling fluids and drill cuttings)
Oil Field Waste St Monitoring and In: Closure Plan - base Anternative Proposed Closure: 19.1 Instructions: Please comple Nype: Drilling W Alternative Proposed Closure Method:	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Oil Field Waste St Monitoring and In: Closure Plan - base Anternative Proposed Closure: 19.1 Instructions: Please comple Alternative Proposed Closure Method: Secondary Closure Method:	rdous Odors, including H2S, Prevention Plan nse Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 15.17.13 NMAC tet the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Vorkover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Swate Excavation and Removal (Below-Grade Tank) Swate Excavation and Removal (Below-Grade Tank) Closed-loop systems only) Con-site Closure Method (only for temporary pits and closed-loop systems) Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Removal Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan mark in the box, that the documents are attached. redures - based upon the appropriate requirements of 19.15.17.13 NMAC lame and Permit Number (for liquids, drilling fluids and drill cuttings)

lo	
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 fluids and drill cuttings. Use attachment if more than two are required.	facilities
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future Ves (If yes, please provide the information No	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NM/C Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided be certain siting criteria may require administrative approval from the appropriate district office or may be cansidered an exception which must be submitted to th	low. Requests regarding changes to e Santa Fe Environmental Burgau office
for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- Topographic map: Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site: Aerial photo; satellite image	Yes No
 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 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. Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland	Yes No
- US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	Yes No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;	
Topographic map Within a 100-year floodplain. - FEMA map	Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closur by a check mark in the box, that the documents are attached.	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards car	nnot 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 I of 19.15.17.13 NMAC	

[9]			
Operator Application C Thereby certify that the info	ertification: rmation submitted with this application is true, accu	mate and complete to the l	sext of my knowledge and balled
Name (Print);	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Cupter Japan		10/00/04/99
e-mail address:	table days concerned up soom	Telephone:	505-326-9837
		receptione.	
20 OCD Approval: Po	rmit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sig		Chostile Fiant (only)	_
			Approval Date:
Title:		OCD Perm	it Number:
Instructions: Operators are report is required to be sub-	d within 60 days of closure completion): Sub- required to obtain an approved closure plan prior i nitted to the division within 60 days of the completio een obtained and the closure activities have been c	to implementing any closur on of the closure activities ompleted.	e activities and submitting the closure report. The closure . Please do not complete this section of the form until an Completion Date:
Desure Method: Waste Excavation an If different from app	nd Removal On-site Closure Method roved plan, please explain.	Alternative Closure N	Method Waste Removal (Closed-loop systems only)
23 <u>Closure Report Regarding</u> Instructions: Please identify were utilized.	Waste Removal Closure For Closed-loop System the facility or facilities for where the liquids, drill	is That Utilize Above Gro ling fluids and drill cuttin	und Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility F	ermit Number:
Disposal Facility Name:		Disposal Facility F	Permit Number:
Were the closed-loop sys	em operations and associated activities performed (monstrate compliane to the items below)		be used for future service and opeartions?
		No	
Site Reclamation (Ph	eus which will not be used for future service and op 010 Documentation)	perations:	
Soil Backfilling and			
	ation Rates and Seeding Technique		
the box, that the document Proof of Closure No Proof of Deed Notice	ament Checklist: Instructions: Each of the follo ats are attached. otice (surface owner and division) ce (required for on-site closure) e closures and temporary pits)	owing items must be attacl	ted to the closure report. Please indicate, by a check mark in
Ξ	ling Analytical Results (if applicable)		
	apling Analytical Results (if applicable)		
	ame and Permit Number		
Soil Backfilling and			
	cation Rates and Seeding Technique		
	hoto Documentation)		
On-site Closure Loc		Longitude:	NAD 1927 1983
5 Operator Closure Certifi hereby certify that the inform the closure complies with all d		report is ture, accurate an cified in the approved clos	d complete to the best of my knowledge and belief. I also certify that ure plan.
lame (Print):		Title:	
ignature:		Date:	
-mail address:		Telephone:	

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Township	: 31N Range:	10W	Sections:				
NAD27 X:	Y:		Zone:	Se	earch Radius	:	
County:	Basin:		. <u>.</u>	Number	r:	Suffix:	
Owner Name: (First)		(Last)		O Nor	n-Domestic	ODomestic	All
POD / Surface Da	ta Report	Avg	Depth to Water	Report	Water	r Column Repor	

WATER COLUMN REPORT 08/20/2008

				3=SW 4=SE						
				smallest			Depth	Depth		(in feet)
POD Number	Tws		c d d d	Zone	х	Y	Well	Water	Column	
SJ 00498	31N	10W 04	12				26	8	18	
SJ 03062 CLW263578	31N	10W 04	1 2 2				47	40	7	
SJ 03062	31N	10W 04	1 2 2				55	46	9	
SJ 02844	31N	10W 04	124				37	21	16	
SJ 00573	31N	10W 04	14				37	12	25	
SJ 00595	31N	10W 04	142				90	12	78	
SJ 00595 S	31N	10W 04	1 4 2				70	10	60	
SJ 00175	31N	10W 04	2				28	13	15	
SJ 01563	31N	10W 04	2 1				44	28	16	
SJ 02089	31N	10W 04	2 1 1				55	40	15	
SJ 03033	31N	10W 04	2 1 1				52	30	22	
SJ 03034	31N	10W 04	2 1 2				45	23	22	
SJ 01564	31N	10W 04	2 2				34	10	24	
SJ 00128	31N	10W 04	2 2				70	21	49	
SJ 02044	31N	10W 05	1 3				22	12	10	
SJ 01370	31N	10W 05	1 3 2				48	28	20	
SJ 01967 X	31N	10W 05	1 3 2				25	10	15	
SJ 02843	31N	10W 05	1 3 2				25	10	15	
SJ 02044 X	31N	10W 05	1 3 4				28	14	14	
SJ 02083	31N	10W 05	221				23	10	13	
SJ 02069	31N	10W 05	2 2 1				22	9	13	
SJ 03013	31N	10W 05	2 2 3				19	7	12	
SJ 03109	31N	10W 05	2 2 3				21	2	19	
SJ 03004	31N	10W 05	224				18	6	12	
SJ 02945	31N	10W 05	224				17	5	12	
SJ 03368	31N	10W 05	224				19	6	13	
SJ 03549	31N	10W 05	2 4 4				42	35	7	
SJ 02884	31N	10W 05	2 4 4				75			
SJ 00304	31N	10W 05	3 4				18	5	13	
SJ 02399	31N	10W 05	3 4 1				40	14	26	
SJ 02944	31N	10W 05	3 4 2				100			
SJ 03112	31N	10W 05	3 4 2				45	33	12	

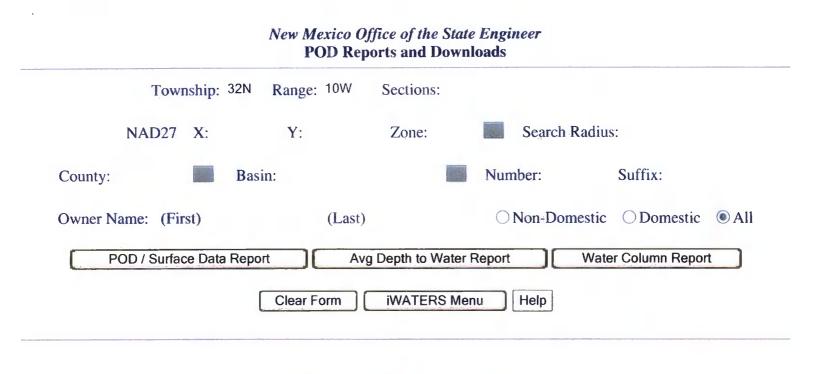
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SJ 02107	31N	10W 05	4 3		35	16	19
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SJ 02037	31N	10W 05	4 3		39	11	28
SJ 03452	31N	10W 05	4 4 2		61	30	31
SJ 03336	31N	10W 05	4 4 3		58	28	30
SJ 03246	31N	10W 05	4 4 3		65	15	50
SJ 01958	31N	10W 06	2		103	83	20
SJ 01977	31N	10W 06	2 3		93	33	60
SJ 03308	31N	10W 06	2 4 3		100	60	40
SJ 02150	31N	10W 07	2 2		41	23	18
SJ 02389	31N	10W 07	2 2 3		48	31	17
SJ 03079	31N	10W 07	2 2 3		50		
SJ 03330	31N	10W 07	3 3 1		400		
SJ 01521	31N	10W 07	4		45	29	16
SJ 03802 POD1	31N	10W 07	4 3 2	269793 2149984	41	24	17
SJ 00585	31N	10W 08			40	23	17
SJ 02304	31N	10W 08	1 2		35	29	6
SJ 03057	31N	10W 08	1 3 4		19	6	13
SJ 03714 POD1	31N	10W 08	3 1 1		21	6	15
SJ 00054	31N	10W 10	2		455		
SJ 00830 -EXPLOR	31N	10W 15	3		550		
SJ 01198	31N	10W 17	3 4		158	97	61
SJ 02624	31N	10W 18	1 1		295	125	170
SJ 01616	31N	10W 18	1 3		18	8	10
SJ 01534	31N	10W 18	1 3 1		34	23	11
SJ 03345	31N	10W 18	1 3 2		21	11	10
SJ 01796	31N	10W 18	1 3 3		32	20	12
SJ 01598	31N	10W 18	1 4		30	5	25
SJ 01587	31N	10W 18	14		35	5	30
SJ 03163	31N	10W 18	1 4 3		19	5	14
SJ 01747	31N	10W 18	1 4 3		20	6	14
SJ 01718	31N	10W 18	2 1 4		30	4	26
SJ 03813 POD1	31N	10W 18	2 1 4	269778 2148065	16	6	10
SJ 03070	31N	10W 18	232		21	1	20
SJ 03324	31N	10W 18	2 3 2		43	20	23
SJ 03474	31N	10W 18	2 4 2		35	c	4.5
SJ 01625 SJ 01500	31N	10W 18 10W 18	3 1 3 1		21	6	15
SJ 01550	31N 31N	10W 18	3 1		26	15	11
SJ 02821	31N	10W 18	3 1 1		22	7	15
SJ 03119	31N	10W 18	3 1 2		24 10	8 8	16 2
SJ 01552	31N	10W 18	3 1 4		30	22	8
SJ 03114	31N	10W 18	3 2 1		16	8	8
SJ 02749	31N	10W 18	3 2 2		16	10	6
SJ 03722 POD1	31N	10W 18	3 2 3		20	6	14
SJ 03721 POD1	31N	10W 18	3 2 3		25	10	15
SJ 03435	31N	10W 18	3 2 3		10	6	4
SJ 03622	31N	10W 18	3 2 3		20	6	14
SJ 00611 S	31N	10W 18	3 3		65	25	40
SJ 00611	31N	10W 18	3 3 3		58	46	12
SJ 00555 CLW225581	31N	10W 19	1		70	45	25
SJ 02909	31N	10W 19	1 1 1		60	47	13
SJ 02929	31N	10W 19	1 1 1		58	40	18
SJ 02979	31N	10w 19	1 1 1		57	43	14
SJ 03103	31N	10W 19	1 1 1		53	33	20
SJ 03359	31N	10W 19	1 1 1		70		
SJ 03705 POD1	31N	10W 19	1 1 2		69	56	13
SJ 03487	31N	10W 19	1 1 3		65	45	20

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SJ	03486		31N	10W	19	1	1	3	
SJ	01428		31N	10W	19	1	3		
SJ	01349		31N	10W	19	1	3	3	
SJ	03285		31N	10W	19	3	1	1	
SJ	02084		31N	10W	25	4	4	2	
SJ	00967		31N	10W	27	4	3		
SJ	00990		31N	10W	27	4	3		
SJ	01483		31N	10W	27	4	4	1	
SJ	02960		31N	10W	27	4	4	2	
SJ	03178		31N	10W	27	4	4	2	
SJ	03539		31N	10W	27	4	4	3	
SJ	00163		31N	10W	28	1	4	1	
SJ	00163	EXPL	31N	10W	28	1	4	3	
SJ	03459		31N	10W	32	3	3	2	
SJ	00981		31N	10W	34	2	1		
SJ	01480		31N	10W	34	2	1		
SJ	03624		31N	10W	34	2	1	2	
SJ	03387		31N	10W	34	2	2	1	
SJ	03728	POD1	3.1N	10W	35	1	3	3	
SJ	03545		31N	10W	35	1	4	3	
SJ	03544		31N	10W	35	1	4	4	
SJ	03571		31N	10W	35	1	4	4	
SJ	03576		31N	10W	35	2	3	3	
SJ	03570		31N	10W	3.5	2	4	4	
SJ	03554		31N	10W	35	4	2	1	

61	44	17
65	45	20
65	45	20
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40		
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130	90	40
162	110	52
195	150	45
200	150	50
235	150	85
205	124	81
1538		
1538		
185	175	10
164	118	46
245	125	120
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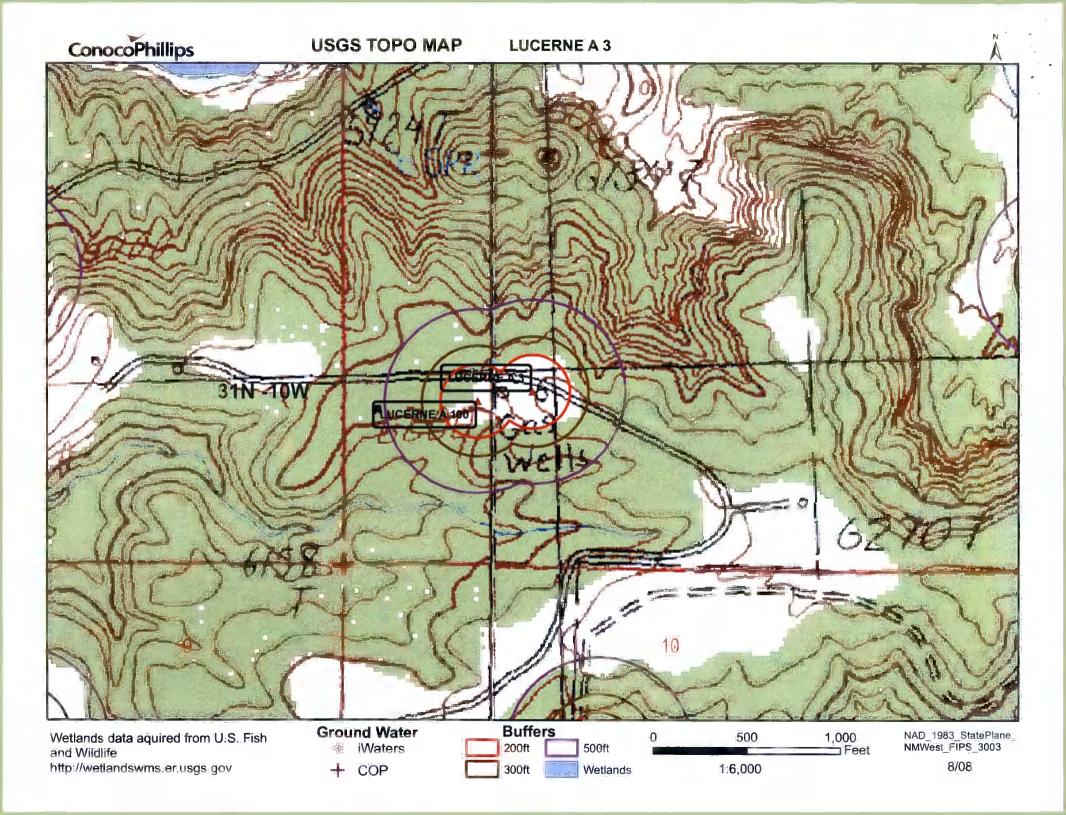
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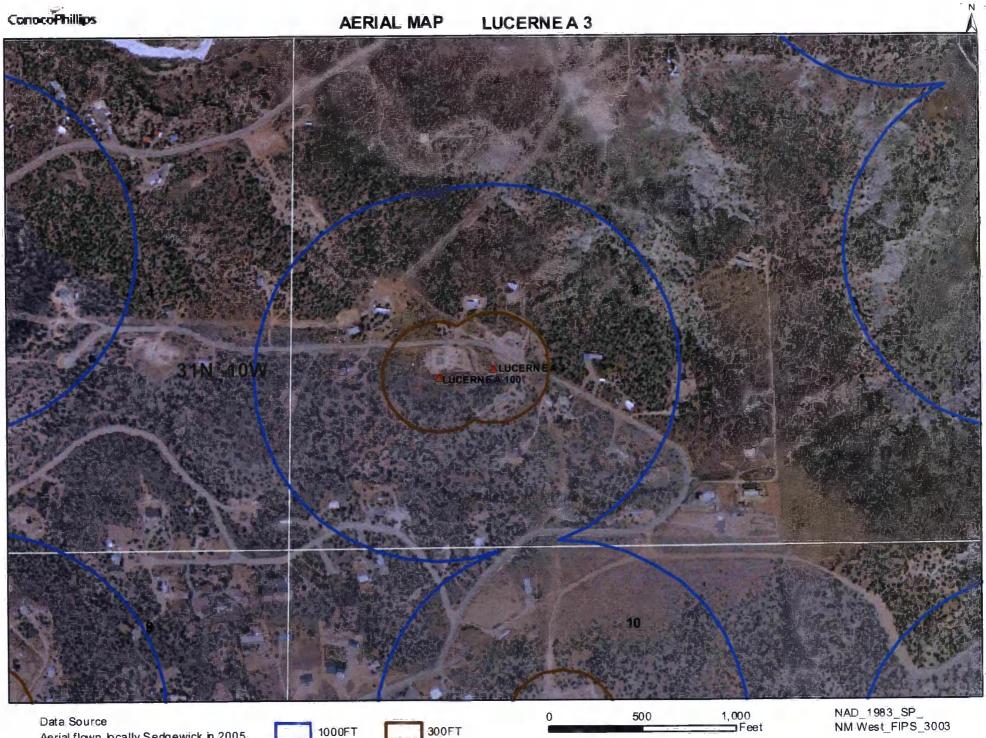
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SJ 01424 32N 10W 10 164 94 70 SJ 00528 32N 10W 10 1 1 2 240 100 140 SJ 00263 32N 10W 10 3 2 2 108 50 58 SJ 01177 32N 10W 10 3 4 83 38 45 SJ 01153 32N 10W 10 4 3 3 23 6 17 SJ 03078 32N 10W 15 1 100 47 53 SJ 03527 32N 10W 15 1 2 2 21 18 3 SJ 03527 32N 10W 15 3 2 3 105 20 85 SJ 0108 20 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 21 2 3	(in feet)		Depth	Depth											
SJ 00528 32N 10W 10 1 1 2 240 100 140 SJ 00263 32N 10W 10 3 2 108 50 58 SJ 0177 32N 10W 10 3 4 83 38 45 SJ 01688 32N 10W 10 4 3 23 6 17 SJ 01153 32N 10W 15 1 2 21 18 3 SJ 03078 32N 10W 15 1 2 21 18 3 SJ 01290 32N 10W 15 3 105 20 85 SJ 02845 32N 10W 15 3 11 5 6 SJ 02445 32N 10W 15 4 2 2 3 49 SJ 02446 32N 10W 21 2 3 77 67 10 SJ 02446 32N 10W 21 2 3 77 65 30 <					Y	х	Zone	Ð	đ	Ð		-			
SJ 00263 32N 10W 10 3 2 2 108 50 58 SJ 01177 32N 10W 10 3 4 83 38 45 SJ 01688 32N 10W 10 4 3 3 23 6 17 SJ 01153 32N 10W 15 1 23 6 17 SJ 01078 32N 10W 15 1 2 2 21 18 3 SJ 03527 32N 10W 15 1 4 1 80 SJ 03527 32N 10W 15 3 2 3 105 20 85 SJ 032845 32N 10W 15 3 2 3 105 20 85 SJ 03429 32N 10W 21 2 3 4 9 SJ 03429 32N 10W 21 2 3 4 9														 01424	SJ
SJ 01177 32N 10W 10 3 4 83 38 45 SJ 01688 32N 10W 10 4 3 3 23 6 17 SJ 01153 32N 10W 15 1 2 23 6 17 SJ 03078 32N 10W 15 1 2 23 6 17 SJ 03527 32N 10W 15 1 2 21 18 3 SJ 03527 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 105 20 85 SJ 01157 32N 10W 15 4 2 3 103 54 49 SJ 02144 32N 10W 21 2 3 4 76 60 16 SJ 02381 32N 10W 21 2 4														 00528	SJ
SJ 01688 32N 10W 10 4 3 3 23 6 17 SJ 01153 32N 10W 15 1 100 47 53 SJ 03078 32N 10W 15 1 2 2 21 18 3 SJ 03527 32N 10W 15 1 4 1 80 SJ 01290 32N 10W 15 3 2 3 105 20 85 SJ 01290 32N 10W 15 3 2 3 105 20 85 SJ 01290 32N 10W 15 4 2 11 5 6 SJ 03429 32N 10W 21 2 3 4 9 SJ 03429 32N 10W 21 2 3 4 9 SJ 02344 32N 10W 21 2 3 4 9 SJ 03483<								2						 	
SJ 01153 32N 10W 15 1 100 47 53 SJ 03078 32N 10W 15 1 2 2 21 18 3 SJ 03527 32N 10W 15 1 4 1 80 80 SJ 01290 32N 10W 15 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 11 5 6 SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 03429 32N 10W 21 2 3 4 100 16 25 55 103 164 49 10 10 16 10 16 10 16 10 15 10 10 10 15 10 10 10 16 10 10 10 10 15 10 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th> 01177</th><th>SJ</th></t<>														 01177	SJ
SJ 03078 32N 10W 15 1 2 2 21 18 3 SJ 03527 32N 10W 15 1 4 1 80 SJ 01290 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 4 2 7 66 SJ 01157 32N 10W 15 4 2 7 67 103 54 49 SJ 02144 32N 10W 21 2 3 7 67 100 SJ 02446 32N 10W 21 2 3 4 7 600 16 SJ 03483 32N 10W 21 2 3 4 1 80 65 SJ 03483 32N 10W 21 2 4 1 80 65 30 35 SJ 03483 32N			_					3	3	4	10	10W		01688	SJ
SJ 03527 32N 10W 15 1 4 1 80 SJ 01290 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 11 5 6 SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 02144 32N 10W 21 2 3 77 67 100 SJ 03483 32N 10W 21 2 3 4 1 90 SJ 03483 32N 10W 21 2 4 1 90 SJ 03483 32N 10W 21 2 4 3 65 30 35 SJ 03483 32N 10W 21 4 3 65 30<													da - 1071	01153	SJ
SJ 01290 32N 10W 15 3 105 20 85 SJ 02845 32N 10W 15 3 2 3 111 5 6 SJ 01157 32N 10W 15 4 2 7 6 7 6 SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 02144 32N 10W 21 2 3 4 7 62 25 SJ 01512 32N 10W 21 2 3 4 76 60 16 SJ 0446 32N 10W 21 2 3 4 90 77 67 100 SJ 0381 32N 10W 21 2 4 1 90 30 SJ 01435 32N 10W 21 2 4 3 30 65 30 35 30		3	18					2	2	1				 03078	SJ
SJ 02845 32N 10W 15 3 2 3 SJ 01157 32N 10W 15 4 2 SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 02144 32N 10W 20 3 1 3 103 54 49 SJ 02144 32N 10W 21 2 3 77 67 10 SJ 01512 32N 10W 21 2 3 4 90 77 67 10 SJ 02486 32N 10W 21 2 4 1 90 90 SJ 02381 32N 10W 21 2 4 1 90 SJ 02381 32N 10W 21 2 4 3 90 SJ 02381 32N 10W 21 2 4 3 90 SJ 01435 32N 10W								1	4	1	15	10W	32N	03527	SJ
SJ 01157 32N 10W 15 4 2 SJ 03429 32N 10W 20 3 1 3 SJ 02144 32N 10W 21 87 62 25 SJ 01512 32N 10W 21 2 3 77 67 10 SJ 00446 32N 10W 21 2 3 4 76 60 16 SJ 00446 32N 10W 21 2 3 4 90 SJ 03483 32N 10W 21 2 4 1 90 SJ 03483 32N 10W 21 2 4 3 65 SJ 03483 32N 10W 21 2 4 3 65 SJ 01435 32N 10W 21 4 3 70 40 30 SJ 03072 32N 10W 22 1 1 3 35 36 <			20											 01290	SJ
SJ 03429 32N 10W 20 3 1 3 103 54 49 SJ 02144 32N 10W 21 2 3 77 62 25 SJ 01512 32N 10W 21 2 3 77 67 10 SJ 00446 32N 10W 21 2 3 4 76 60 16 SJ 03483 32N 10W 21 2 4 1 90 90 SJ 03483 32N 10W 21 2 4 1 90 SJ 03483 32N 10W 21 2 4 3 65 SJ 03483 32N 10W 21 2 4 3 70 40 30 SJ 0489 32N 10W 21 4 3 70 40 30 SJ 03072 32N 10W 22 1 1 3 30 65 36<		6	5	11				3			15	10W	32N	02845	SJ
SJ 02144 32N 10W 21 87 62 25 SJ 01512 32N 10W 21 2 3 77 67 10 SJ 00446 32N 10W 21 2 3 4 76 60 16 SJ 03483 32N 10W 21 2 4 1 90 50 16 SJ 02381 32N 10W 21 2 4 1 90 50 30 30 SJ 01435 32N 10W 21 4 4 1 90 50 30 30 SJ 01435 32N 10W 21 4 4 1 65 30 35 SJ 00489 32N 10W 21 4 4 1 80 62 18 SJ 03072 32N 10W 22 1 1 3 65 36 29 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 030									2	4	15	10W	32N	01157	SJ
SJ 01512 32N 10W 21 2 3 77 67 10 SJ 00446 32N 10W 21 2 3 4 76 60 16 SJ 03483 32N 10W 21 2 4 1 90 90 SJ 02381 32N 10W 21 2 4 3 65 65 SJ 01435 32N 10W 21 4 4 1 65 30 35 SJ 00489 32N 10W 21 4 4 1 80 62 18 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 03072 32N 10W 22 1 1 3 65 36 29 SJ 03307 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 01356 32N			54					3	1	3	20	10W	32N	03429	SJ
SJ 00446 32N 10W 21 2 3 4 76 60 16 SJ 03483 32N 10W 21 2 4 1 90 16 SJ 02381 32N 10W 21 2 4 1 90 16 SJ 02381 32N 10W 21 2 4 3 65 60 16 SJ 02381 32N 10W 21 2 4 3 65 60 30 SJ 01435 32N 10W 21 4 3 70 40 30 SJ 0489 32N 10W 21 4 4 1 65 30 35 SJ 03072 32N 10W 22 1 1 30 65 36 29 SJ 03307 32N 10W 22 1 1 4 105 19 86 SJ 03000 32N 10W 28 4			62								21	10W	32N	02144	SJ
SJ 03483 32N 10W 21 2 4 1 90 SJ 02381 32N 10W 21 2 4 3 65 SJ 01435 32N 10W 21 4 4 3 70 40 30 SJ 01435 32N 10W 21 4 4 1 65 30 35 SJ 00489 32N 10W 21 4 4 1 65 30 35 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03307 32N 10W 22 1 1 4 105 19 86 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 01356 32N 10W 3 3 3 </th <td></td> <td></td> <td>67</td> <td>77</td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>2</td> <td>21</td> <td>10W</td> <td>32N</td> <td>01512</td> <td>SJ</td>			67	77					3	2	21	10W	32N	01512	SJ
SJ 02381 32N 10W 21 2 4 3 65 SJ 01435 32N 10W 21 4 4 1 65 30 35 SJ 00489 32N 10W 21 4 4 1 65 30 35 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03072 32N 10W 22 1 1 3 65 36 29 SJ 03307 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10		16	60					4	3	2	21	10W	32N	00446	SJ
SJ 01435 32N 10W 21 4 3 70 40 30 SJ 00489 32N 10W 21 4 4 1 65 30 35 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03070 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 03000 32N 10W 28 4 1 23 14 9 SJ 0153 32N 10W 31 3 3 65 50 15 SJ 01356 32N 10W 33 25 15 10 SJ 00323 32N 10W 33 25 15 10				90				1	4	2	21	10W	32N	03483	SJ
SJ 00489 32N 10W 21 4 4 1 65 30 35 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03070 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10				65				3	4	2	21	10W	32N	02381	SJ
SJ 03072 32N 10W 22 1 1 1 80 62 18 SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03072 32N 10W 22 1 1 3 65 36 29 SJ 03007 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10									3	4	21	10W	32N	01435	SJ
SJ 02980 32N 10W 22 1 1 3 65 36 29 SJ 03307 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10				65							21	10W	32N	00489	SJ
SJ 03307 32N 10W 22 1 1 4 60 20 40 SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10			62	80							22	10W	32N	03072	SJ
SJ 03000 32N 10W 22 1 1 4 105 19 86 SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10		29	36	65				3	1	1	22	10W	32N	02980	SJ
SJ 00153 32N 10W 28 4 1 23 14 9 SJ 01356 32N 10W 31 3 3 65 50 15 SJ 00323 32N 10W 33 25 15 10		40	20	60				4	1	1	22	10W	32N	03307	SJ
SJ 01356 32N 10W 31 3 65 50 15 SJ 00323 32N 10W 33 25 15 10			19	105				4	1	1	22	10W	32N	03000	SJ
SJ 01356 32N 10W 31 3 65 50 15 SJ 00323 32N 10W 33 25 15 10		9	14	23					1	4	28	10W	32N	00153	SJ
SJ 00323 32N 10W 33 25 15 10		15	50	65					3	3	31	10W	32N		day in the second second
		10	15	25							33	10W			
		7.0	160	230				3	2	2	33	10W	32N		
SJ 01897 32N 10W 33 2 4 54 25 29		29	25											the second s	
SJ 00231 32N 10W 33 4 50 27 23		23	27	50									and the second se		
SJ 01346 32N 10W 33 4 1 70 40 30		30													
SJ 01222 32N 10W 33 4 41 34 7		7													
SJ 01222 SJ 01222								3							

SJ	00860	32N	10W	33	4	2			
SJ	01110	32N	10W	33	4	2	4		
SJ	01577	32N	10W	33	4	3			
SJ	03495	32N	10W	33	4	3	3		
SJ	03568	32N	10W	33	4	3	3		
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SJ	02789	32N	10W	33	4	4	4		
SJ	00718	32N	10W	34	1	3			
SJ	00586	32N	10W	34	3				
SJ	00534	32N	10W	34	3				
SJ	01490	32N	10W	34	3	1			
SJ	01029	32N	10W	3'4	3	1			
SJ	03067	32N	10W	3.4	3	1	1		
SJ	02809	32N	10W	34	3	1	1		
SJ	03672	32N	10W	34	3	1	2		
SJ	02757	32N	10W	34	3	1	2		
SJ	03068	32N	10W	34	3	1	4		
SJ	00921	32N	10W	34	3	3	1		
SJ	01389	32N	10W	34	3	3	1		
SJ	03731 POD1	32N	10W	34	3	3	3		

		70	28	42
		60	20	40
		44	20	24
		40	6	34
		80	8	72
270831	2159896	60	30	30
		31	18	13
		31	13	18
		34	8	26
		28	12	16
		48	20	28
		31	7	24
		20		
		30		
		25	10	15
		29	12	17
		35		
		60	40	20
		35	6	29
		22	12	10

Record Count: 52





Aerial flown locally Sedgewick in 2005.

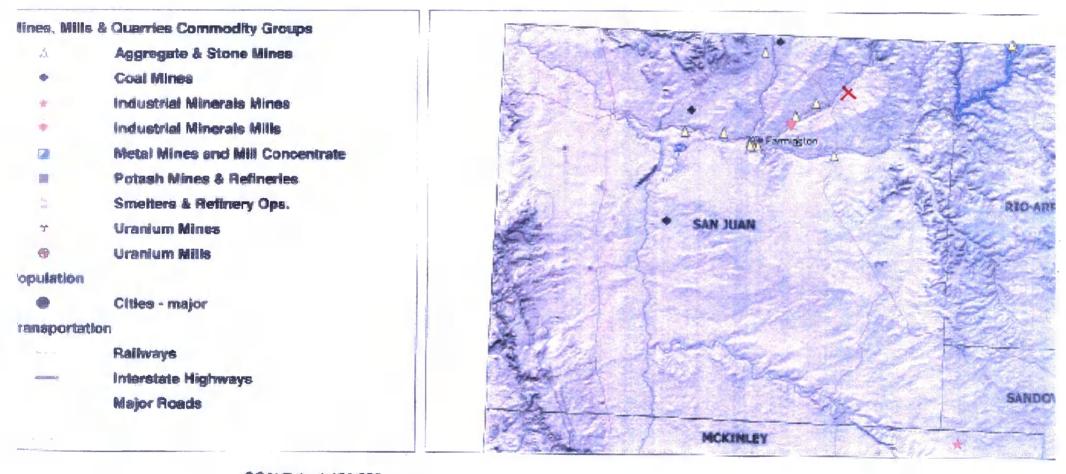
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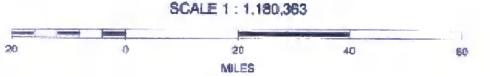
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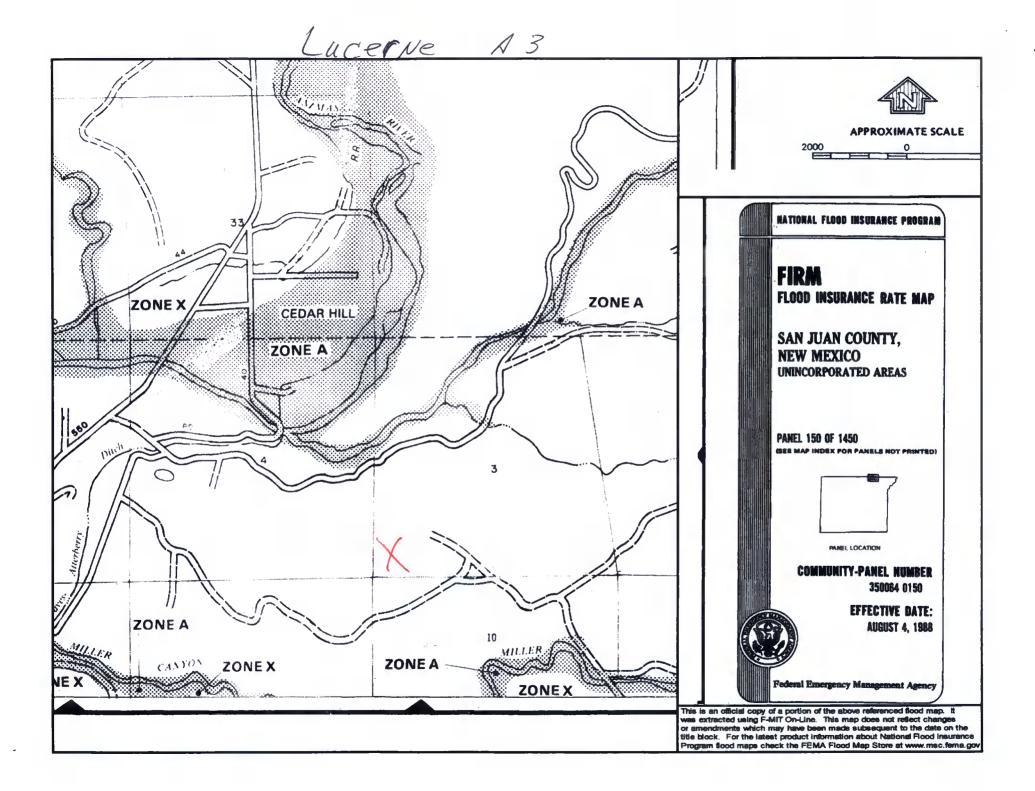
8/08

Mines, Mills and Quarries Web Map

Unit Letter: M, Section: 03, Town: 031N, Range: 010W







LUCERNE A3

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LUCERNE A 3', which is located at 36.92276 degrees North latitude and 107.87424 degrees West longitude. This location is located on the Mount Nebo 7.5' USGS topographic quadrangle. This location is in section 3 of Township 31 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 1.4 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 22.5 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 1.3 miles to the northwest. The location is on Private land and is 1,047 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Subbasin. This location is located 1899 meters or 6228 feet above sea level and receives 13 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 362 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 720 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Animas River and is 3,311 feet to the northwest. The nearest water body is 1,810 feet to the northwest. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 1,484 feet to the northwest. 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 2,556 feet to the southwest. There is no wetland data available for this area. The slope at this location is 0 degrees to the west as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION -- Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Haplargids-Blackston-Torriorthents complex, very steep' 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 3.0 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.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

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

References:

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

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

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

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

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

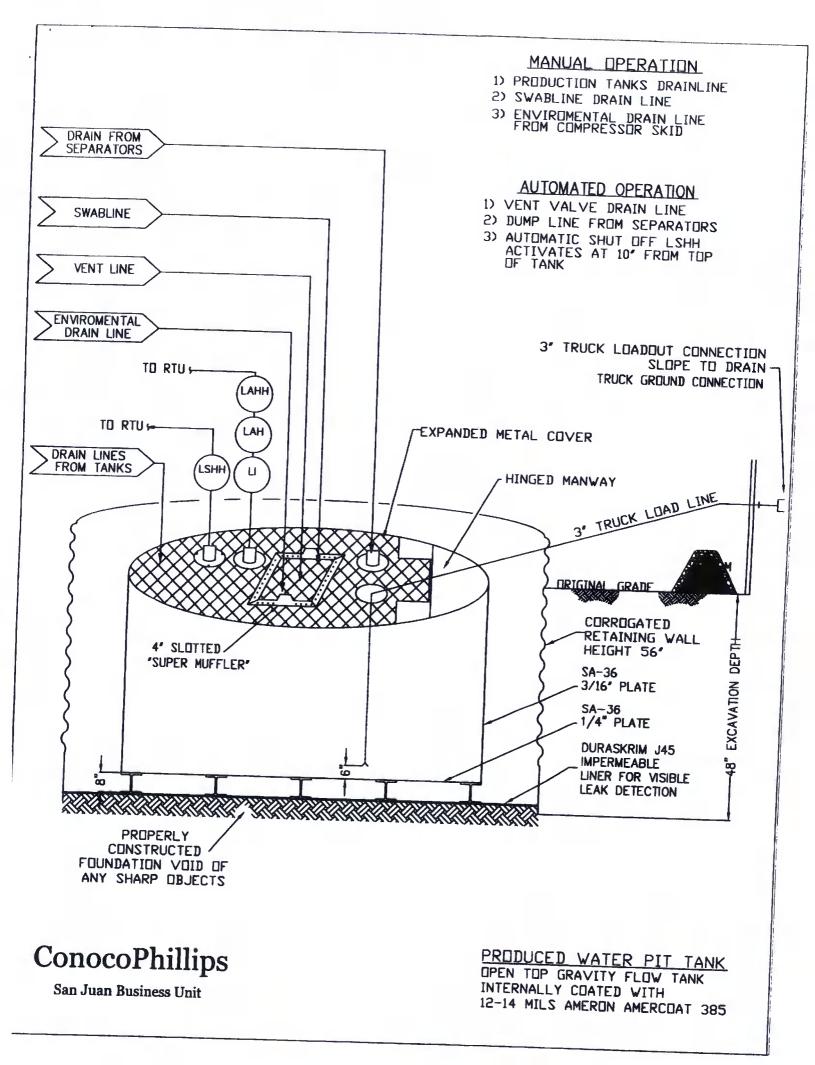
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

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



PROPERTIES	TEST METHOD	all and the second second	J30BB		J36BB		J45BB	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	Carry Charles and the second s	Typical Roll	
Appearance		Bla	Black/Black		Black/Black			
Thickness	ASTM D 5199	27 mil	27 mil 30 mil				Black/Black	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	36 mil 168 lbs (24.19)	40 mil	45 mil 210 lbs	
Construction								
Ply Adhesion	ASTM D 413	16 lbs	**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
	2		20105	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 Ibf MD 90 Ibf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5			
uncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf		<1	<0.5	
faximum Use Temperature				101 60	83 lbf	80 lbf	99 lbf	

MD = Machine Direction

Maximum Use Temperature

Minimum Use Temperature

DD = Diagonal Directions

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

180° F

-70° F

180° F

-70° F

*Dimensional Stability Maximum Value

180° F

-70° F

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon confained information or recommendations and



PLANT LOCATION

180° F

-70° F

Sioux Falls, South Dakota

SALES OFFICE

180° F

-70° F

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

180° F

-70° F

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

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 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 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 of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 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 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 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