District I	State of New Mexico	Form C-14
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	
District II 1301 W. Grand Ave., Artesia, NM 88210	Department Oil Conservation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV	1220 South St. Francis Dr. Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grad	de Tank, or
Propos	sed Alternative Method Permit or Closu	re Plan Application
Type of action:	 X Permit of a pit, closed-loop system, below-grade Closure of a pit, closed-loop system, below-grade Modification to an existing permit Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method 	e tank, or proposed alternative method nitted or non-permitted pit, closed-loop system,
Instructions: Please submit one	application (Form C-144) per individual pit, closed-lo	
Please be advised that approval	of this request does not relieve the operator of liability should operations lieve the operator of its responsibility to comply with any other applicable	result in pollution of surface water, ground water or the
1 Operator: Burlington Resources O		OGRID#: <u>14538</u>
Address: PO Box 4289, Farmingto		
Facility or well name: SAN JUAN		
API Number:	3004525041 OCD Permit Numb	er:
U/L or Qtr/Qtr: P Secti Center of Proposed Design: Latitud Surface Owner: Federal		10W County: San Juan -107.84583°W NAD: X 1927 1983 an Allotment 1927 1983
Permanent Emergency C Lined Unlined L String-Reinforced	7.11 NMAC rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume:	HDPE PVC Other bbl Dimensions L x W x D
Type of Operation: P&A Drying Pad Above Group Lined Unlined	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies t notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE actory Other	o activities which require prior approval of a permit or HDPE PVD Other
4 X Below-grade tank: Subsection Volume: 120 b Tank Construction material:	bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and au Visible sidewalls only Other	tomatic overflow shut-off
	quired. Exceptions must be submitted to the Santa Fe Envir	onmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

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, institute Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u>	tution or chur	ch)
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) 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. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.	deration of ar	proval.
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	100
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes XNA	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	Yes	XNo
 Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	X No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

Oil Conservation Division

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	orary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC tions: 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
H	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
Pre	viously Approved Design (attach copy of design) API or Permit
12	
	I-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Istruc	tions: 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.
H	Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Н	Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Н	Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Н	Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Pre	viously Approved Design (attach copy of design) API
Pre	viously Approved Operating and Maintenance Plan API
3	
erm	ment Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
istru	tions: 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
Н	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Н	Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Н	Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
ŏ	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
Ц	Nuisance or Hazardous Odors, including H2S, Prevention Plan
Н	Emergency Response Plan
Н	Oil Field Waste Stream Characterization
H	Monitoring and Inspection Plan Erosion Control Plan
H	Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
-	
4 rop	sed Closure: 19.15.17.13 NMAC
	tions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
ype:	Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
ropos	ed Closure Method: X Waste Excavation and Removal
ropos	ed Closure Method: X Waste Excavation and Removal Waste Removal (Closed-loop systems only)
ropos	Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems)
ropos	Waste Removal (Closed-loop systems only)
ropo	Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems)
Propos	Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench
15 Waste	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan
15 Waste Please	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan indicate, by a check mark in the box, that the documents are attached.
15 Waste Please	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC)
15 Vasto Tease X X	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan indicate, by a check mark in the box, that the documents are attached. 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
IS Vasto Vease X X X	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan indicate, by a check mark in the box, that the documents are attached. 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
15 Waste Please X X	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) Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan indicate, by a check mark in the box, that the documents are attached. 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

Oil Conservation Division

16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above G</u> Instructions: Please identify the facility or facilities for the disposal of liquid are required.	round Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) ds, drilling fluids and drill cuttings. Use attachment if more than two f	acilities
Disposal Facility Name:	Disposal Facility Permit #:	the second s
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associate Yes (If yes, please provide the information No	d activities occur on or in areas that will not be used for future s	ervice and operations?
Required for impacted areas which will not be used for future service and o Soil Backfill and Cover Design Specification - based upon the Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirement	e appropriate requirements of Subsection H of 19.15.17.13 NMA of Subsection I of 19.15.17.13 NMAC	с
17		
Siting Criteria (Regarding on-site closure methods only: 19.15.17 Instructions: Each siting criteria requires a demonstration of compliance in the clo certain siting criteria may require administrative approval from the appropriate di for consideration of approval. Justifications and/or demonstrations of equivalency	sure plan. Recommendations of acceptable source material are provided belo strict office or may be considered an exception which must be submitted to the	
Ground water is less than 50 feet below the bottom of the buried was	te.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS	: Data obtained from nearby wells	N/A
Ground water is between \$0 and 100 feet below the betters of the bu	riad mosts	Yes No
Ground water is between 50 and 100 feet below the bottom of the but - NM Office of the State Engineer - iWATERS database search; USGS		
 Not Office of the State Engineer - TwATERS tatabase search, 0505 	, Data obtailed from fically wens	
Ground water is more than 100 feet below the bottom of the buried w	/aste.	Yes
 NM Office of the State Engineer - iWATERS database search; USGS 	; Data obtained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any of (measured from the ordinary high-water mark).	ther significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed sit	e	Charles Street In
Within 300 feet from a permanent residence, school, hospital, institution, or - Visual inspection (certification) of the proposed site; Aerial photo; sate		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring purposes, or within 1000 horizontal fee of any other fresh water well or spri - NM Office of the State Engineer - iWATERS database; Visual inspect	ing, in existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal free pursuant to NMSA 1978, Section 3-27-3, as amended.	esh water well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written ap Within 500 feet of a wetland 	proval obtained from the municipality	
 US Fish and Wildlife Wetland Identification map; Topographic map; 	Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNRD-M	ining and Mineral Division	
Within an unstable area.		Yes No
- Engineering measures incorporated into the design; NM Bureau of Ge Topographic map	ology & Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
¹⁸ On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached.	ns: Each of the following items must bee attached to the closu.	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the a	appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate r	equirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) bas	ed upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place buria	al of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate require	ements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the a	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilli	ng fluids and drill cuttings or in case on-site closure standards ca	nnot be achieved)
Soil Cover Design - based upon the appropriate requirements	-	
Re-vegetation Plan - based upon the appropriate requirements		

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

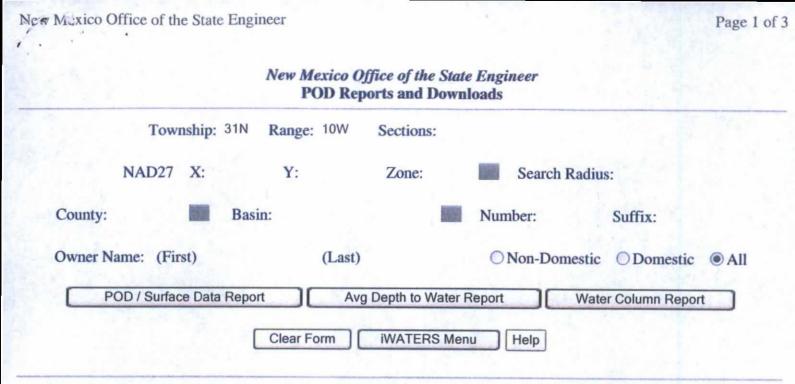
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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19			
Operator Application			the loss of my boundaries with the
		cation is true, accurate and complete to	
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	anotal Ta	Date:	12/22/2008
e-mail address:	crystal.tafoya@conocophil	ps.com Telephone:	505-326-9837
OCD Approval:	Permit Application (including clo	sure plan) Closure Plan (or	aly) OCD Conditions (see attachment)
DCD Approval.	remin Application (including clo		
OCD Representative	Signature:		Approval Date:
Title:		OCDE	ermit Number:
		0001	
21			
Closure Report (requ	uired within 60 days of closure co	ompletion): Subsection K of 19.15.17.13 N	MAC
	-		closure activities and submitting the closure report. The closure
	submitted to the division within 60 day as been obtained and the closure activ		vities. Please do not complete this section of the form until an
The second channel plant in	and the second sec		sure Completion Date:
to the second second			sure compression Date.
22			
Closure Method:			
Waste Excavatio	on and Removal On-site C	losure Method Alternative Clo	sure Method Waste Removal (Closed-loop systems only)
If different from	approved plan, please explain.		
23			
Closure Report Regard	ling Waste Removal Closure For Cl	osed-loop Systems That Utilize Abov	e Ground Steel Tanks or Haul-off Bins Only:
	ntify the facility or facilities for when	e the liquids, drilling fluids and drill o	cuttings were disposed. Use attachment if more than two facilities
piere utilized.		Disposal Fac	ility Dennit Number
Disposal Facility Nat	ne.		ility Permit Number:
Discoul Equility May		Discoul Es	ility Domais Marshan
Disposal Facility Nat			ility Permit Number:
Were the closed-loop	system operations and associated act	ivities performed on or in areas that wi	ility Permit Number:
Were the closed-loop Yes (If yes, plea	o system operations and associated act se demonstrate complilane to the item	ivities performed on or in areas that wi is below) No	
Were the closed-loop Yes (If yes, plea Required for impacted	system operations and associated act	ivities performed on or in areas that wi is below) No	
Were the closed-loop Yes (If yes, plea Required for impacte Site Reclamation	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut	ivities performed on or in areas that wi is below) No	
Were the closed-loop Yes (If yes, plea Required for impact Site Reclamatio Soil Backfilling	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut n (Photo Documentation)	ivities performed on or in areas that wind is below)	
Were the closed-loop Yes (If yes, plea Required for impacte Site Reclamation Soil Backfilling Re-vegetation A	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut n (Photo Documentation) and Cover Installation	ivities performed on or in areas that wind is below)	
Were the closed-loop Yes (If yes, plea Required for impacte Site Reclamation Soil Backfilling Re-vegetation A	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut n (Photo Documentation) and Cover Installation pplication Rates and Seeding Techniq	ivities performed on or in areas that winds below)	
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Were the closed-loop Yes (If yes, plea Required for impacte Site Reclamation Soil Backfilling Re-vegetation A Closure Report A the box, that the doc Proof of Closure	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut a (Photo Documentation) and Cover Installation pplication Rates and Seeding Techniq ttachment Checklist: Instructions uments are attached. re Notice (surface owner and divisi	ivities performed on or in areas that will solve below) No ure service and operations: ue :: Each of the following items must be ion)	Ill not be used for future service and opeartions?
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Were the closed-loop Yes (If yes, plea Required for impacte Site Reclamation Soil Backfilling Re-vegetation A Closure Report A the box, that the doc Proof of Closu Proof of Deed Plot Plan (for c	o system operations and associated act se demonstrate complilane to the item ed areas which will not be used for fut n (Photo Documentation) and Cover Installation pplication Rates and Seeding Techniq ttachment Checklist: Instructions uments are attached. re Notice (surface owner and divisi Notice (required for on-site closure on-site closures and temporary pits)	ivities performed on or in areas that within the service and operations: uue Exect of the following items must be ion) Dilicable)	ill not be used for future service and opeartions?
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Were the closed-loop Yes (If yes, plea Required for impact Site Reclamatio Soil Backfilling Re-vegetation A Closure Report A the box, that the doc Proof of Closur Proof of Closur Proof of Deed Plot Plan (for of Confirmation S Waste Materia Disposal Facili Soil Backfillin, Re-vegetation	o system operations and associated act se demonstrate complilane to the item of areas which will not be used for fut an (Photo Documentation) and Cover Installation pplication Rates and Seeding Techniq ttachment Checklist: Instructions uments are attached. re Notice (surface owner and divisi Notice (required for on-site closure on-site closures and temporary pits) Sampling Analytical Results (if app I Sampling Analytical Results (if app ty Name and Permit Number g and Cover Installation Application Rates and Seeding Tec	ivities performed on or in areas that wi is below) No ure service and operations: ue :: Each of the following items must be ion) :) plicable) pplicable)	ill not be used for future service and opeartions?
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Form	C-1	44

Oil Conservation Division



WATER COLUMN REPORT 08/20/2008

							smallest			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng				đ	Zone	x	Y	Well	Water	Column		
SJ 00498	31N	10W		1	2					26	8	18		
SJ 03062 CLW263578	_ 31N	10W		1		2				47	40	7		
SJ 03062	31N	100		1		2				55	46	9		
SJ 02844	31N	10W		1	_	4				37	21	16		
SJ 00573	31N	10W		1	4	-				37	12	25		
SJ 00595	31N	10W		1	77.	2				90	12	78		
SJ 00595 S	31N	10W		1	4	2				70	10	60		
SJ 00175	31N	10W		2						28	13	15		
SJ 01563	31N	10W		2	1					44	28	16		
SJ 02089	31N	10W		2	-	1				55	40	15		
SJ 03033	31N	10W		2		1				52	30	22		
SJ 03034	31N	10W		2	_	2				45	23	22		
SJ 01564	31N	10W		2	2					34	10	24		
SJ 00128	31N	10W		2	2					70	21	49		
SJ 02044	31N	10W		1	3					22	12	10		
SJ 01370	31N	10W		1	-	2				48	28	20		
SJ 01967 X	31N	10W		1	-	2				25	10	15		
SJ 02843	31N	10W		1	-	2				25	10	15		
SJ 02044 X	31N	10W		1	-	4				28	14	14		
SJ 02083	31N	10W		2	_	1				23	10	13		
SJ 02069	31N	10W		2	-	1				22	9	13		
SJ 03013	31N	10W		2	100	3				19	7	12		
SJ 03109	31N	10W		2		3				21	2	19		
SJ 03004	31N	10W	05	2	2	4				18	6	12		
SJ 02945	31N	10W	05	2	2	4				17	5	12		
SJ 03368	31N	10W	05	2	2	4				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	100	05	3	4	1				40	14	26		
SJ 02944	31N	10W	05	3	4	2				100		20		
SJ 03112	31N	10W		3		2				45	33	12		

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4 									
SJ 01373 X	31N	10W 05	3	4	3		35	10	25
SJ 02107	31N	10W 05	4	3			35	16	19
SJ 01373	31N	10W 05	4	3			6	3	3
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			41	23	18
SJ 02389	31N	10W 07		-	3		48	31	17
SJ 03079	31N	10W 07			3		50		
SJ 03330	31N	10W 07		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
<u>SJ 00585</u>	31N	10W 08	4	0			40	23	17
SJ 02304	31N	10W 08		2	4		35	29	6
SJ 03057	31N	10W 08		3 1			19	6	13
SJ 03714 POD1	31N 31N	10W 08 10W 10	2	Ŧ	T		21 455	6	15
SJ 00054 SJ 00830 -EXPLOR	31N	10W 10	3				550		
SJ 01198	31N	10W 15		4			158	97	61
SJ 02624	31N	10W 17		1			295	125	170
SJ 01616	31N	10W 18		3			18	8	10
SJ 01534	31N	10W 18			1		34	23	11
SJ 03345	31N	10W 18		3	2		21	11	10
SJ 01796	31N	10W 18			3		32	20	12
SJ 01598	31N	10W 18		4			30	5	25
SJ 01587	31N	10W 18	1	4			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		1	4	269778 2148065	16	6	10
SJ 03070	31N	10W 18		3	2		21	1	20
SJ 03324	31N	10W 18		3	2		43	20	23
SJ 03474	31N	10W 18		4	2		35		
SJ 01625	31N	10W 18	-	1			21	6	15
SJ 01500	31N	10W 18 10W 18		1			26	15 7	11
SJ 01550 SJ 02821	31N 31N	10W 18		1	1		22 24	8	15 16
SJ 03119	31N	10W 18		1			10	8	2
SJ 01552	31N	10W 18		1			30	22	8
SJ 03114	31N	10W 18			1		16	8	8
SJ 02749	31N	10W 18		2	2		16	10	6
SJ 03722 POD1	31N	10W 18			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			60	47	13
SJ 02929	31N	10W 19		1			58	40	18
SJ 02979	31N	10W 19		1			57	43	14
SJ 03103	31N	10W 19			1		53	33	20
SJ 03359	31N	10W 19			1		70	6	
SJ 03705 POD1	31N	10W 19		1			69	56	13
SJ 03487	31N	10W 19	1	1	3		65	45	20

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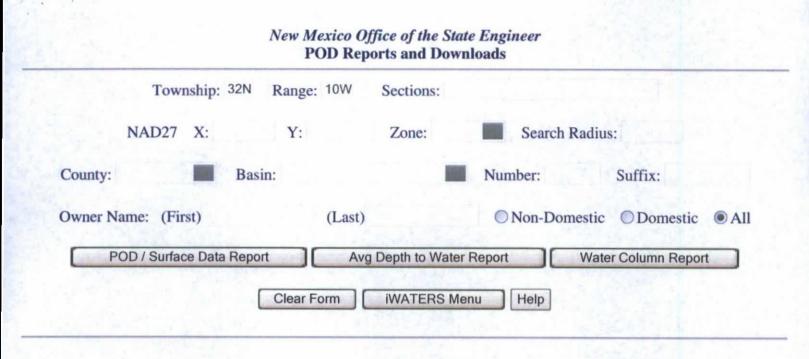
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SJ 01428	31N	10W	19	1	3		
SJ 01349	31N	10W	19	1	3	3	
SJ 03285	31N	10W	19	3	1	1	
SJ 02084	31N	10W	25	4	4	2	
SJ 00967	31N	10W	27	4	3		
SJ 00990	31N	10W	27	4	3		
SJ 01483	31N	10W	27	4	4	1	
SJ 02960	31N	10W	27	4	4	2	
SJ 03178	31N	10W	27	4	4	2	
SJ 03539	31N	100	27	4	4	3	
SJ 00163	31N	100	28	1	4	1	
SJ 00163 EXPL	31N	10W	28	1	4	3	
SJ 03459	31N	10W	32	3	3	2	
SJ 00981	31N	100	34	2	1		
SJ 01480	31N	100	34	2	1		
SJ 03624	31N	10W	34	2	1	2	
SJ 03387	31N	100	34	2	2	1	
SJ 03728 POD1	31N	100	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	35	2	4	4	
SJ 03554	31N	10W	35	4	2	1	

61	44	17
65	45	20
65	45	20
78	67	11
40		
315		
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
165	65	100
250	200	50
365	230	135
455	317	138
325	220	105
250		
450	137	313
250		
454	317	137

Record Count: 117

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New Mexico Office of the State Engineer



WATER COLUMN REPORT 08/20/2008

							3=SW 4=SE					24		
POD Number	(quarter Tws	Rng		-			zone	x	Y	Depth Well	Depth Water	Water Column	(in	feet)
SJ 01424	32N	10W		A	A	A	LONG	*		164	94	70		
SJ 00528	32N	10W		1	1	2				240	100	140		
SJ 00263	32N	10W		3		2				108	50	58		
SJ 01177	32N	100		3		-				83	38	45		
SJ 01688	32N	10W				3				23	6	17		
SJ 01153	32N	10W		1						100	47	53		
SJ 03078	32N	10W		1	2	2				21	18	3		
SJ 03527	32N	10W		1						80				
SJ 01290	32N	10W		3						105	20	85		
SJ 02845	32N	10W		3	2	3				11	5	6		
SJ 01157	32N	10W	15	4	2							1000		
SJ 03429	32N	100	20	3	1	3				103	54	49		
SJ 02144	32N	10W								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				
SJ 02381	32N	10W	21	2	4	3				65				
SJ 01435	32N	100	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 03307	32N	100	22	1	1	4				60	20	40		
SJ 03000	32N	100	22	1	1	4				105	19	86		
SJ 00153	32N	100	28	4	1					23	14	9		
SJ 01356	32N	10W	31	3	3					65	50	15		
SJ 00323	32N	10W	33							25	15	10		
SJ 01546	32N	10W	33	2	2	3				230	160	70		
SJ 01897	32N	100	33	2	4					54	25	29		
SJ 00231	32N	10W	33	4						50	27	23		
SJ 01346	32N	10W	33	4	1					70	40	30		
SJ 01222	32N	10W	33	4	1					41	34	7		
SJ 02733	32N	100	33	4	1	3				28	16	12		

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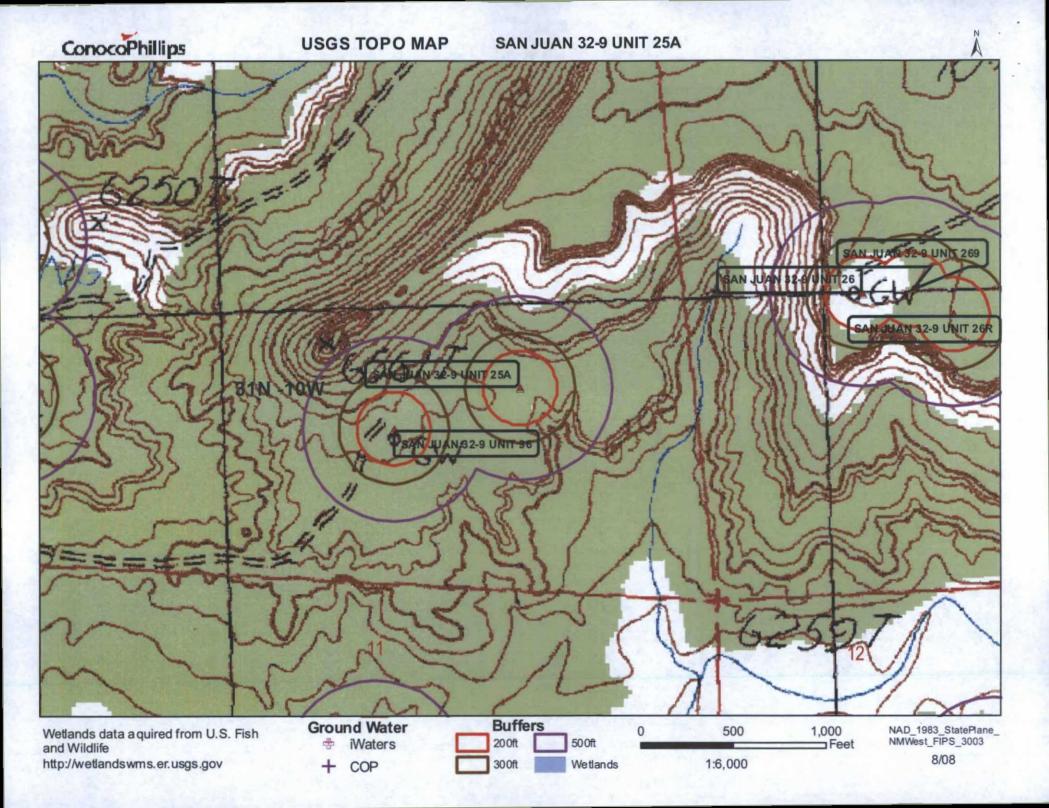
New Mexico Office of the State Engineer

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
SJ	03778	POD1	32N	10W	33	4	3	4
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	14	32N	10W	34	3	1	
SJ	01029	the second	32N	10W	34	3	1	
SJ	03067		32N	10W	34	3	1	1
SJ	02809		32N	10W	34	3	1	1
SJ	03672		32N	10W	34	3	1	2
SJ	02757		32N	100	34	3	1	2
SJ	03068		32N	10W	34	3	1	4
SJ	00921		32N	10W	34	3	3	1
SJ	01389	1. 1. 2.	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		
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		35		
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		35	6	29
		22	12	10

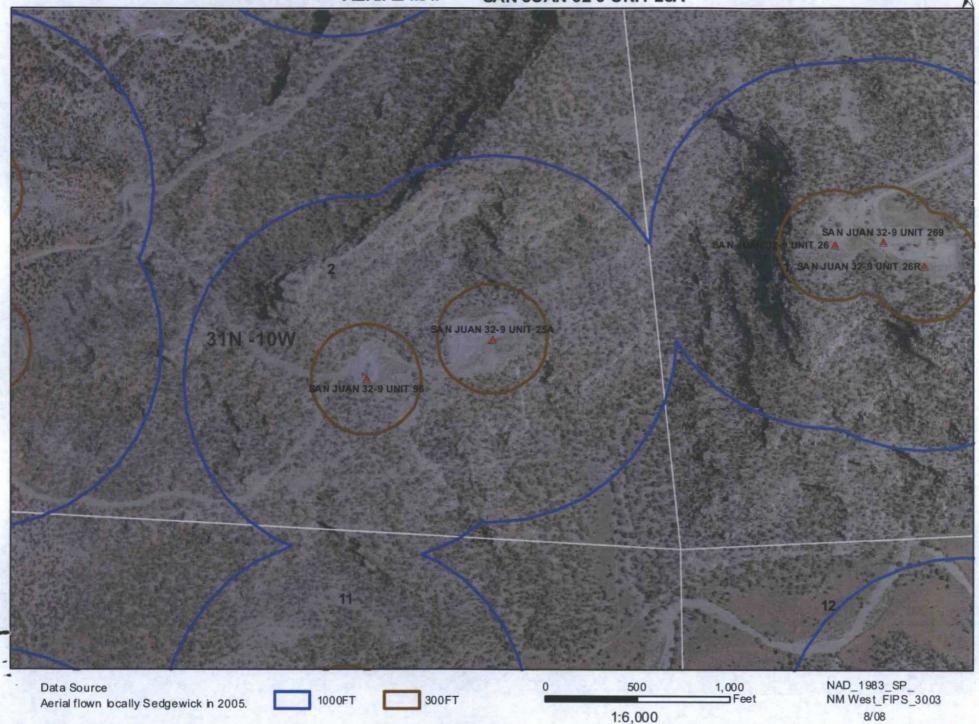
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ConocoPhillips

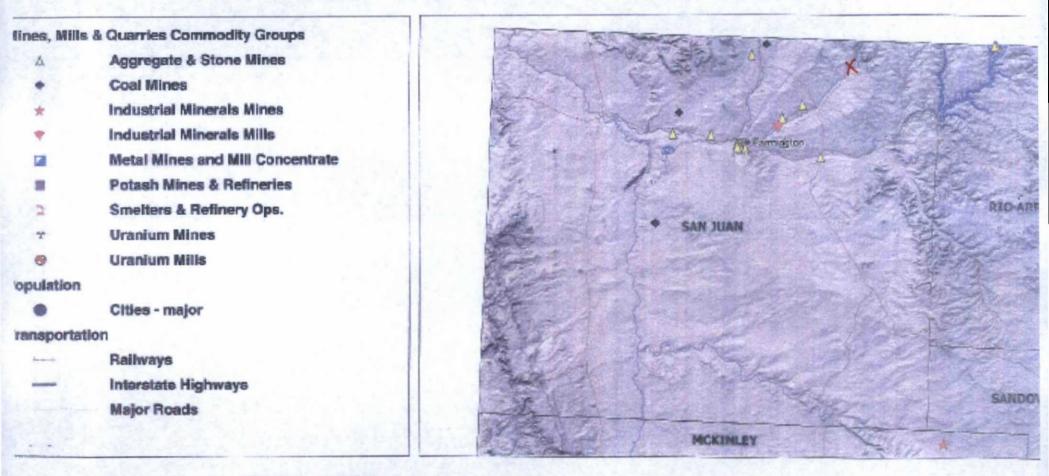
AERIAL MAP SAN JUAN 32-9 UNIT 25A



Mines, Mills and Quarries Web Map

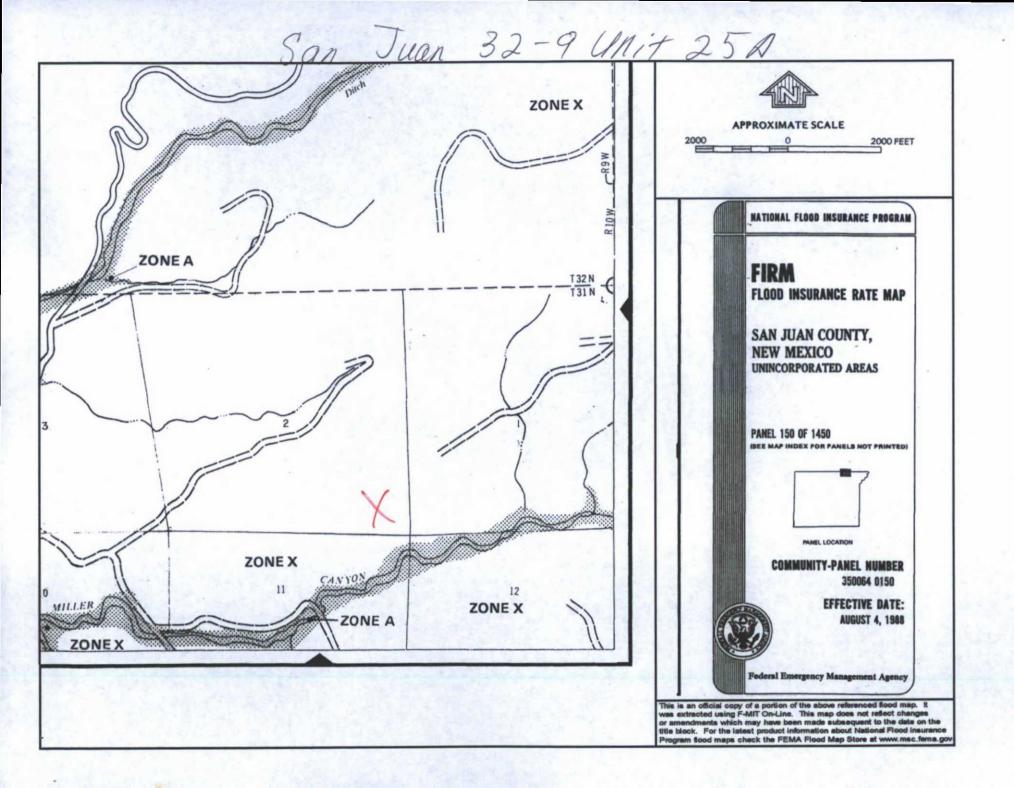
SAN JUAN 32-9 UNIT 25A

Unit Letter: P, Section: 02, Town: 031N, Range: 010W





interest in the				
20	0	20	40	80
		MILES		



SAN JUAN 32-9 UNIT 25A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 32-9 UNIT 25A', which is located at 36.92252 degrees North latitude and 107.84583 degrees West longitude. This location is located on the Mount Nebo 7.5' USGS topographic quadrangle. This location is in section 2 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 2.7 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 23.8 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 2.7 miles to the northwest. The location is on State land and is 807 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, Sub-basin. This location is located 1929 meters or 6327 feet above sea level and receives 14.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 406 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 685 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 8,925 feet to the southeast. The nearest water body is named C C Reservoir and is 8.892 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.7 acres in size. The nearest spring is 3,365 feet to the west. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 6,056 feet to the west. There is no wetland data available for this area. The slope at this location is 3 degrees to the southeast 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 'Badland-Rock outcrop-Persayo complex, extremely steep' and is and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 3.8 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it comnformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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.

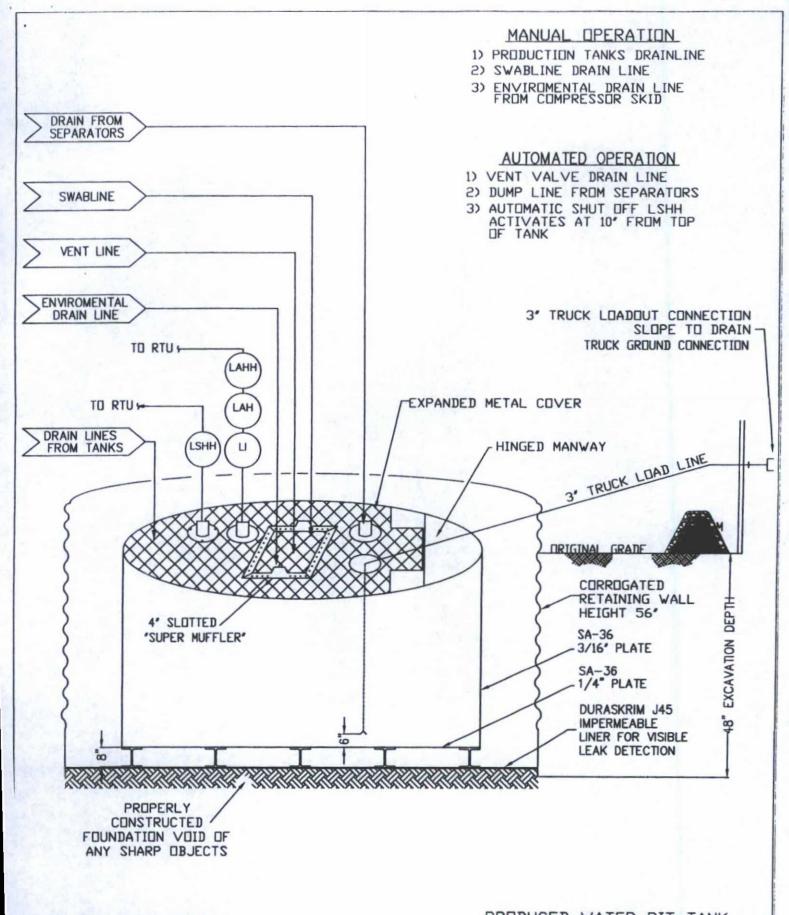
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



ConocoPhillips

San Juan Business Unit

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

DURA-SKRIM®

130, J36 a 145

PROPERTIES	TEST METHOD	J30BB		J36BE		J4588	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

MD = Machine Direction DD = Diagonal Directions

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

*Dimensional Stability Maximum Value

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

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and discraims all liability for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 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.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - · Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice

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

19.15.17.9 Permit application

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

19.15.17.10 Siting requirements

New Mexico Office of State Engineer attachment

USGS TOPO map

Aerial Map

Mines, Mills and Quarries Web Map

FIRM map (flood insurance rate map from Federal Emergency Management Agency)

19.15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

Requirements:

Registration Date: 03/25/2016