District I' 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-14 July 21, 200
<u>District I}</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	Department Oil Conservation Division 1220 South St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Francis Di., Santa Fe, NW 87505	Pit, Closed-Loop System, Below-Grad	e Tank or
Propos	sed Alternative Method Permit or Closur	
Type of action:	X Permit of a pit, closed-loop system, below-grade t	ank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade	
	Modification to an existing permit	
	Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	
Instructions: Please submit one	application (Form C-144) per individual pit, closed-loo	
Please be advised that approval of	of this request does not relieve the operator of liability should operations r	result in pollution of surface water, ground water or the
environment. Nor does approval rel	lieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingto	on, NM 87499	
Facility or well name: UTTON 100	S	
API Number:	3004533717 OCD Permit Numbe	r:
U/L or Qtr/Qtr: D Secti	on: 7 Township: 30N Range: 1	1W County: San Juan
Center of Proposed Design: Latitud		-108.0363°W NAD: X 1927 1983
Surface Owner: Federal	State X Private Tribal Trust or Indian	
Permanent Emergency C Lined Unlined L String-Reinforced	rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume:	HDPE PVC Other
Type of Operation: P&A Drying Pad Above Grou Lined Unlined	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE H actory Other	activities which require prior approval of a permit or
4 X Below-grade tank: Subsection Volume: 120 b Tank Construction material:	Obl Type of fluid: Produced Water Metal	omatic overflow shut-off
5 Alternative Method: Submittal of an exception request is re	quired. Exceptions must be submitted to the Santa Fe Enviro	nmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

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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, in 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>	ustitution or ch	urch)
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)	Comožila,	Langer (*
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC		
9 <u>Administrative Approvals and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	nsideration of a	approval.
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¹⁰ <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes XNA	N₀
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.	12.2	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

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l'empoi	ry Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC s: 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.
-	drogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
	drogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
	ng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
XC	erating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	sure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 15.17.9 NMAC and 19.15.17.13 NMAC
Previ	usly Approved Design (attach copy of design) API or Permit
2	
	op Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC s: 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.
	ologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Πs	ng Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Пр	ign Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
1	erating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
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	sure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 IAC and 19.15.17.13 NMAC
Previ	Isly Approved Design (attach copy of design) API
Previ	Isly Approved Operating and Maintenance Plan API
	tified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC e Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC k Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC er Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC dity Control/Quality Assurance Construction and Installation Plan rrating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC eboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	sance or Hazardous Odors, including H2S, Prevention Plan ergency Response Plan Field Waste Stream Characterization nitoring and Inspection Plan sion Control Plan wrre Plan aure Plan aure Plan a based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
	ergency Response Plan Field Waste Stream Characterization hitoring and Inspection Plan
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Dent Contraction pe:	Ergency Response Plan Field Waste Stream Characterization intoring and Inspection Plan ston Control Plan sture Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Closure: 19.15.17.13 NMAC :: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative Iosure Method: X Waste Excavation and Removal
opose dructio	Ergency Response Plan Field Waste Stream Characterization nitoring and Inspection Plan sion Control Plan sure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Closure: 19.15.17.13 NMAC stre Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative Iosure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
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E E O O M E E C C C C C C C C C C C C C C C C C C	ergency Response Plan Field Waste Stream Characterization hitoring and Inspection Plan sion Control Plan sure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Closure: 19.15.17.13 NMAC s:: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Drilling Workover Closure: 19.15.17.13 NMAC s:: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Drilling Workover Closure: 19.15.17.13 NMAC s:: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Drilling Workover Alternative Closed-loop System Isoure Method: X Waste 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) avation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions:: Each of the following items must be attached to the closure plan ate, by a check mark in the box, th

	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
	ssociated activities occur on or in areas that will not be used for future	service and operations?
Required for impacted areas which will not be used for future servic Soil Backfill and Cover Design Specification - based u Re-vegetation Plan - based upon the appropriate requir Site Reclamation Plan - based upon the appropriate rec	pon the appropriate requirements of Subsection H of 19.15.17.13 NM rements of Subsection I of 19.15.17.13 NMAC	AC
17 Siting Criteria (Regarding on-site closure methods only: instructions: Each siting criteria requires a demonstration of compliance i ertain siting criteria may require administrative approval from the appropri- or consideration of approval. Justifications and/or demonstrations of equi-	in the closure plan. Recommendations of acceptable source material are provided by priate district office or may be considered an exception which must be submitted to to	elow. Requests regarding changes to he Santa Fe Environmental Bureau offic
Ground water is less than 50 feet below the bottom of the buri - NM Office of the State Engineer - iWATERS database search		Yes No 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 b	uried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search:	: USGS; Data obtained from nearby wells	
Vithin 300 feet of a continuously flowing watercourse, or 200 feet of measured from the ordinary high-water mark).	of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the prop	osed site	
Vitual impaction (artification) of the proposed site. A solution	Yes No	
 Visual inspection (certification) of the proposed site; Aerial photo- 	oto: satellite image	Yes No
/ithin 500 horizontal feet of a private, domestic fresh water well or urposes, or within 1000 horizontal fee of any other fresh water well - NM Office of the State Engineer - iWATERS database; Visual		
/ithin incorporated municipal boundaries or within a defined munic arsuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Wr	ipal fresh water well field covered under a municipal ordinance adopted	Yes No
/ithin 500 feet of a wetland	the approval counted from the maneparty	Yes No
- US Fish and Wildlife Wetland Identification map; Topographic	map; Visual inspection (certification) of the proposed site	
ithin the area overlying a subsurface mine.	DD Mining and Minural Division	Yes No
 Written confiramtion or verification or map from the NM EMN /ithin an unstable area. 	RD-wining and Mineral Division	Yes No
- Engineering measures incorporated into the design; NM Bureau	of Geology & Mineral Resources: USGS; NM Geological Society;	
Topographic map /ithin a 100-year floodplain.		
- FEMA map		Yes No

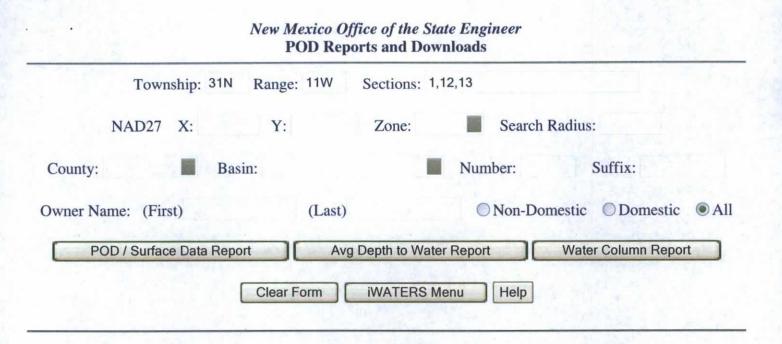
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

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

Name (Print): Signature:	Crystal Ta	nova	Title:	Domila		
Signature:	De atal-	Tabara	Date:		tory Technician	(I
and the second second	crystal La oya@cond	In BOXIC	Telephone:		05-326-9837	TUNE OF STREET
e-mail address:	Civita naoya s com				5-520-7651	
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	rmit Application (includ	ling closure plan)	Closure Plan (only		onditions (see attach	iment)
OCD Representative Sig	nature:			4.0	proval Date:	
				Ap	provar Date.	
l'itle:	the second second second		OCD Per	mit Number:		
21						
Closure Report (require Instructions: Operators are report is required to be subn upproved closure plan has b	required to obtain an appr nitted to the division within	roved closure plan prior t n 60 days of the completion	o implementing any clo on of the closure activit ompleted.	sure activities and	t complete this section	
22 Closure Method: Waste Excavation an If different from app	d Removal Or roved plan, please explain.	n-site Closure Method	Alternative Closur	re Method	Waste Removal (Clos	sed-loop systems only)
23						
nstructions: Please identify						
instructions: Please identify			ling fluids and drill cut		ed. Use attachment i	
nstructions: Please identify pere utilized. Disposal Facility Name: Disposal Facility Name:	the facility or facilities fo	or where the liquids, dril	ling fluids and drill cut Disposal Facili Disposal Facili	t <mark>tings were dispos</mark> ty Permit Number ty Permit Number	ed. Use attachment ij :	f more than two facilities
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Instructions: Please identify vere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Yes (If yes, please du Required for impacted ar Site Reclamation (Pf Soil Backfilling and Re-vegetation Applid Closure Report Attace the box, that the docume	the facility or facilities for the operations and associate monstrate complilane to the ease which will not be used toto Documentation Cover Installation action Rates and Seeding T <u>homent Checklist:</u> Instru- nts are attached.	or where the liquids, drill inted activities performed the items below) [for future service and op rechnique uctions: Each of the follow	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
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Instructions: Please identify pere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Yes (If yes, please do Required for impacted an Site Reclamation (Pf Soil Backfilling and Re-vegetation Applied Closure Report Attace the box, that the docume Proof of Closure N Proof of Deed Note	the facility or facilities for the operations and associate monstrate complilane to the ease which will not be used toto Documentation Cover Installation aution Rates and Seeding T <u>homent Checklist:</u> Instru- nts are attached.	or where the liquids, drill ted activities performed the items below) [for future service and op rechnique uctions: Each of the follow I division) closure)	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
anstructions: Please identify are utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Vere the closed-loop sys Vere (If yes, please de Required for impacted ar Site Reclamation (Pf Soil Backfilling and Re-vegetation Applid Closure Report Attace the box, that the docume Proof of Closure N Proof of Deed Notic Plot Plan (for on-si	the facility or facilities for the operations and associa emonstrate complilane to the eas which will not be used toto Documentation) Cover Installation ration Rates and Seeding T hument Checklist: Instru- nats are attached. Dice (surface owner and ce (required for on-site of	or where the liquids, drill ated activities performed the items below) [for future service and op rechnique fechnique fechnique fechnique for the following for the following	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
A Closure Report Attact Closure Report Attact Closure Report Attact Proof of Closure N Confirmation Samp Waste Material Sam	the facility or facilities for the facility or facilities for the operations and associa emonstrate complilane to the eas which will not be used toto Documentation) Cover Installation ration Rates and Seeding T hment Checklist: Instru- nts are attached. The cover for on-site of the closures and temporar obling Analytical Results of appling Analytical Results of	by where the liquids, drill inted activities performed the items below) [for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique Sechniqu	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
Arrections: Please identify pere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Yes (If yes, please du Required for impacted ar Site Reclamation (Pf Soil Backfilling and Re-vegetation Applied Re-vegetation Applied Closure Report Attace the box, that the docume Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp Waste Material Sar Disposal Facility N	the facility or facilities for the facility or facilities for the operations and associate term operations and associate term operations and associate term operations and associate term operations and seeding T the second second second second term operations and second second term operation of the second second term operation of the second second second term operation of the second second second second term operation of the second second second second term operation of the second second second second second second term operation of the second sec	by where the liquids, drill inted activities performed the items below) [for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique for future service and op Sechnique Sechniqu	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
Instructions: Please identify pere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Yes (If yes, please du Required for impacted an Site Reclamation (Pf Soil Backfilling and Re-vegetation Applied Closure Report Attace the bax, that the docume Proof of Closure N Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp Waste Material Sam Disposal Facility N Soil Backfilling and	the facility or facilities for the facility or facilities for term operations and associa emonstrate complilane to the eas which will not be used toto Documentation) Cover Installation cover Installation the are attached. The for the for on-site of the closures and temporar obing Analytical Results of anpling Analytical Results of annot and Permit Number I Cover Installation	or where the liquids, drill ted activities performed the items below) [for future service and op rechnique fechnique for future service and op rechnique for future service and op for future service an	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
Instructions: Please identify vere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Yes (If yes, please do Required for impacted an Site Reclamation (Pf Soil Backfilling and Re-vegetation Applid Re-vegetation Applid Closure Report Attace the box, that the docume Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp Waste Material Sam Disposal Facility N Soil Backfilling and Re-vegetation Applid	the facility or facilities for the facility or facilities for term operations and associa emonstrate complilane to the eas which will not be used toto Documentation) Cover Installation ation Rates and Seeding T <u>hument Checklist:</u> Instru- nts are attached. Dotice (surface owner and ce (required for on-site of the closures and temporar oling Analytical Results and analytical Results ame and Permit Number I Cover Installation ication Rates and Seedin	or where the liquids, drill ted activities performed the items below) [for future service and op rechnique fechnique for future service and op rechnique for future service and op for future service an	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities
anstructions: Please identify are utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop sys Ves (If yes, please de Required for impacted ar Site Reclamation (Pf Soil Backfilling and Re-vegetation Applid Closure Report Attace the box, that the docume Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp Waste Material Sam Disposal Facility N Soil Backfilling and Re-vegetation Applid	the facility or facilities for the facility or facilities for term operations and associa emonstrate complilane to the eas which will not be used toto Documentation) Cover Installation ation Rates and Seeding T <u>hument Checklist:</u> Instru- nts are attached. The for on-site of the closures and temporar obing Analytical Results ame and Permit Number I Cover Installation ication Rates and Seedin Photo Documentation)	or where the liquids, drill ted activities performed the items below) [for future service and op rechnique fechnique for future service and op rechnique for future service and op for future service an	ling fluids and drill cut Disposal Facilit Disposal Facilit on or in areas that will o No berations:	ttings were dispos	ed. Use attachment i	f more than two facilities

Form C-144

Oil Conservation Division



WATER COLUMN REPORT 01/14/2009

	(quarter (quarter									Depth	Depth	Water	(in
POD Number	Tws	Rng					Zone	x	Y	Well	Water	Column	
SJ 02395	31N	11W			1					95	35	60	
SJ 00560	31N	11W	13	2	4					39	25	14	
SJ 01551	31N	11W	13	2	4					64	42	22	
SJ 01640	31N	11W	13	2	4					32	7	25	
SJ 01729	31N	11W	13	2	4					48	28	20	
SJ 01539	31N	11W	13	3						52	30	22	
SJ 01541	31N	11W	13	3						52	30	22	
SJ 00946	31N	11W	13	3	3					135	100	35	
SJ 01879	31N	11W	13	4						26	8	18	
SJ 01540	31N	11W	13	4						52	30	22	
SJ 01801	31N	11W	13	4						22	15	7	
SJ 03412	31N	11W	13	4	2					60			
SJ 03413	31N	11W	13	4	2					60			
SJ 02495	31N	11W	13	4	2	1				28	12	16	
SJ 03736 POD1	31N	11W	13	4	2	1				19	6	13	
SJ 03623	31N	11W	13	4	2	1				30	16	14	
SJ 03264	31N	11W	13	4	2	2				20	11	9	
SJ 03125	31N	11W	13	4	2	4				20	5	15	
SJ 03124	31N	11W	13	4	2	4				20	5	15	
SJ 03712 POD1	31N	11W	13	4	3	1				19	11	8	
SJ 03018	31N	11W	13	4		4				20	8	12	
SJ 03670	31N	11W	13	4	3	4				26	10	16	
SJ 01542	31N	11W	13	4	4								
SJ 01730	31N	11W	13	4	4					40	24	16	
SJ 01609	31N	11W	13	4	4					40	18	22	
SJ 01538	31N	11W	13	4	4					52	30	22	
SJ 01663	31N	11W	13	4	4					45	25	20	
SJ 01645	31N	11W	13	4	4					22	6	16	
SJ 02149	31N	11W	13	4	4					35			
SJ 01767	31N	11W	13	4	4					42	18	24	
SJ 01644	31N	11W	13	4	4					23	6	17	
SJ 01731	31N	11W			4					43	25	18	

SJ 01683	31N	11W 13	4 4				45	25	20
SJ 01537	31N	11W 13	4 4				52	28	24
SJ 01699	31N	11W 13	4 4				42	12	30
SJ 02093	31N	11W 13	4 4	W	470700	2143800	40	20	20
SJ 03440	31N	11W 13	4 4 1				20	6	14
SJ 03084	31N	11W 13	4 4 2				19	11	8
SJ 03085	31N	11W 13	4 4 2				18	8	10
SJ 03064	31N	11W 13	4 4 3				45		
SJ 02801	31N	11W 13	4 4 3				36	5	31
SJ 02838	31N	11W 13	4 4 4				38	10	28
SJ 02855	31N	11W 13	4 4 4				31		
SJ 01142	31N	11W 13	4 4 4				30	8	22
SJ 01173	31N	11W 13	4 4 4				46	28	18
SJ 02289	31N	11W 13	4 4 4				45	16	29

Record Count: 46

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

1/14/2009

	fice of the State Engineer orts and Downloads
Township: 30N Range: 11W	Sections: 5,6,7,8,17,18
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	○ Non-Domestic ○ Domestic ● All
POD / Surface Data Report Avg	Depth to Water Report Water Column Report
Clear Form	iWATERS Menu Help

WATER COLUMN REPORT 01/14/2009

	(quarter	s are	e 1=	NW	2:	=NE	3=SW 4=	SE)					
	(quarter									Depth	Depth	Water	(in
POD Number	Tws	The second se	Sec		-		Zone	x	Y	Well	Water	Column	
SJ 03267	30N	11W			_	3				83	60	23	
SJ 03245	30N	11W		4	4	4				80	65	15	
SJ 02194	30N	11W								59	22	37	
SJ 02140	30N	11W		1		1				70	60	10	
SJ 00688	30N	11W		1	4	3				70	58	12	
SJ 00389	30N	11W	07	1	4	3				53			
SJ 00690	30N	11W		1	4	3				60			
SJ 00748	30N	11W	07	1	4	3				60	41	19	
SJ 00415	30N	11W	07	1	4	3				53	40	13	
SJ 00387	30N	11W	07	1	4	3							
SJ 00358	30N	11W	07	1	4	3				61	38	23	
SJ 00739	30N	11W	07	1	4	3				70	58	12	
SJ 00806	30N	11W	07	1	4	3				38	20	18	
SJ 00882	30N	11W	07	1	4	3				60	50	10	
SJ 00397	30N	11W	07	1	4	3				56	35	21	
SJ 00889	30N	11W	07	1	4	3				55			
SJ 00689	30N	11W	07	1	4	3				78	65	13	
SJ 03271	30N	11W	07	2	3	2							
SJ 01475	30N	11W	07	2	3	3				49	27	22	
SJ 03465	30N	11W	07	2	3	4				80			
SJ 00259	30N	11W	07	2	4					25	12	13	
SJ 01492	30N	11W	07	3						60	22	38	
SJ 03794 POD1	30N	11W	07	3	1	3	2	266272	2119520	44	27	17	
SJ 01172	30N	11W	07	3	2					50	30	20	
SJ 01484	30N	11W	07	3	3					61	10	51	
SJ 01310	30N	11W	07	3	3					80	50	30	
SJ 03630	30N	11W		3	3	3				68	24	44	
SJ 01425	30N	11W		3						55	25	30	
SJ 01468	30N	11W		3	4					60	25	35	
SJ 02006	30N	11W		3	4	2				50	24	26	
SJ 03484	30N	11W		3	4	3				75		20	
SJ 02715	30N	11W		3	4	4				68	20	48	
50 04113	501	TTAA	07	5	4	-1				00	20	40	

SJ	02005	30N	11W	07	3	4	4
SJ	01406	30N	11W	07	4	1	-
SJ	00135	30N	11W	07	4	1	
	00769	30N	11W	07	4	1	
SJ	Contraction of the second s			07	4	1	1
SJ	02936	30N	11W				1
SJ	00679	30N	11W	07	4	1	3
SJ	00329	30N	11W	07	4	1	3
SJ	00162	30N	11W	07	4	1	3
SJ	00620	30N	11W	07	4	1	3
SJ	02906	30N	11W	07	4	1	4
SJ	00893	30N	11W	07	4	2	
SJ	01667	30N	11W	07	4	3	
SJ	01404	30N	11W	07	4	3	
SJ	00918	30N	11W	07	4	3	2
SJ	00604	30N	11W	07	4	3	2
SJ	00601	30N	11W	07	4	3	2
SJ	00919	30N	11W	07	4	3	2
SJ	00920	30N	11W	07	4	3	2
SJ	01567	30N	11W	07	4	4	2
	00183	30N	11W	08	1	1	4
SJ	03154	30N	11W	08	1	1	4
SJ		30N	11W			4	4
SJ	03431			08	1		
SJ	01999	30N	11W	80	2	2	
SJ	01814	30N	11W	08	2	2	
SJ	01451	30N	11W	08	2	2	
SJ	00332	30N	11W	08	2	2	
SJ	01968	30N	11W	80	2	2	
SJ	03398	30N	11W	08	2	2	1
SJ	03098	30N	11W	08	2	2	2
SJ	03210	30N	11W	80	2	2	2
SJ	03381	30N	11W	80	2	2	2
SJ	03240	30N	11W	80	2	2	2
SJ	00220	30N	11W	08	2	2	3
SJ	00228	30N	11W	08	2	2	4
SJ	03653	30N	11W	08	2	2	4
SJ	03646	30N	11W	08	2	2	4
SJ	03639	30N	11W	08	2	2	4
SJ	01115	30N	11W	08	2	2	4
SJ	03378	30N	11W	08	2	4	2
SJ	02331	30N	11W	08	2	4	2
SJ	03303	30N	11W	08	2	4	2
SJ	02293	30N	11W	08	2	4	2
SJ	03030	30N	11W	08	2	4	2
SJ	03202	30N	11W	08	2	4	2
SJ	03305	30N	11W	08	2	4	2
SJ	00249	30N	11W	08	2	4	2
SJ	01368	30N	11W	08	3	2	
SJ	03089	30N	11W	08	3	2	4
SJ	03480	30N	11W	08	3	2	4
SJ	02413	30N	11W	08	3	4	1
	03199	30N	11W	08	3	4	1
SJ	the second s	30N	11W	08	3	4	1
SJ	02915						
SJ	03367	30N	11W	08	3	4	4
SJ	01570	30N	11W	08	4	1	~
SJ	03642	30N	11W	80	4	1	2
SJ	00925	30N	11W	80	4	1	2
SJ	01520	30N	11W	08	4	1	2
SJ	02485	30N	11W	08	4	1	4
SJ	03313	30N	11W	80	4	1	4

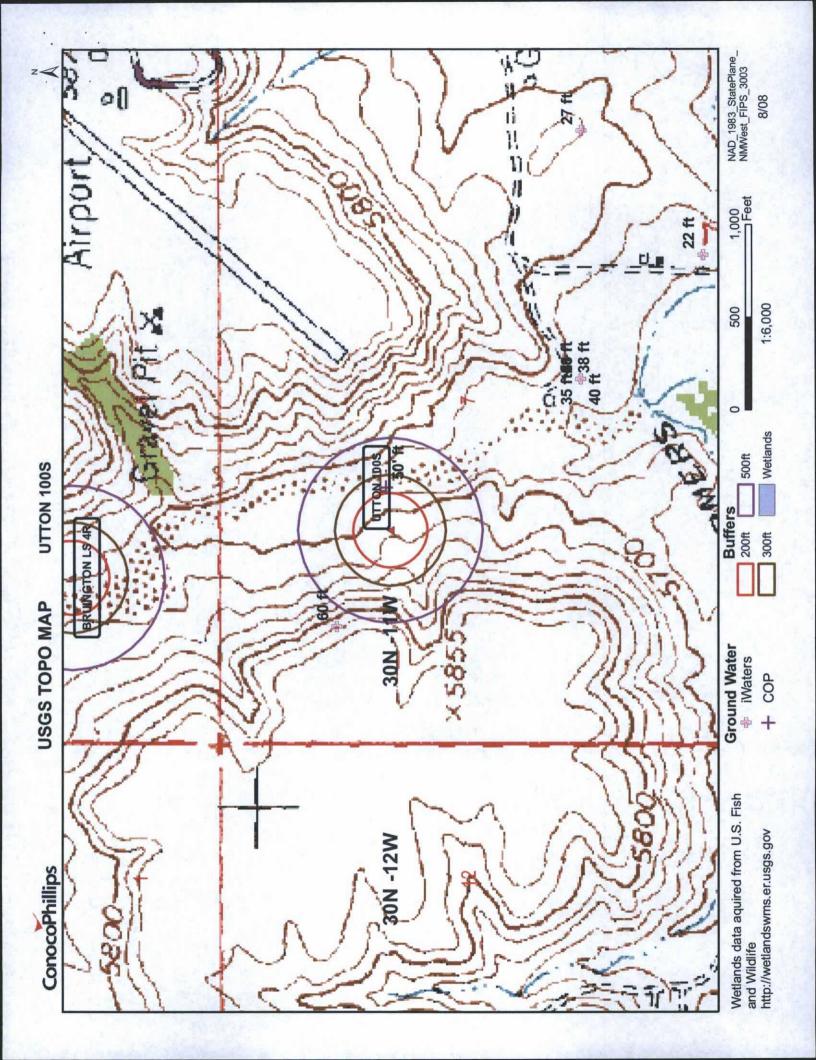
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180	23	157
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38	30	8
48	22	26
63	20	43
58	23	35
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45	24	21
80	40	40
41	21	20
40	15	25
35	14	21
38	22	16
40	22	18
35	12	23
35	12	23
35	14	23
360	300	60
40		
50	4.5	1.5
61	45	16
52	10	42
64	34	30
52	34	18
40	25	15
80	20	60
63	23	40
60	30	30
50		
50		
60	36	24
67	38	29
62	26	36
61	24	37
60	24	36
35	26	9
50		
53	35	18
55	30	25
50	35	15
56	40	16
45		20
50		
46	30	16
59	39	20
48	36	12
50	20	12
	21	0
40	31	9
40	20	20
45		
29	5	24
59	37	22
58	32	26
32	20	12
58	18	40
49	30	19
58	20	38
	20	

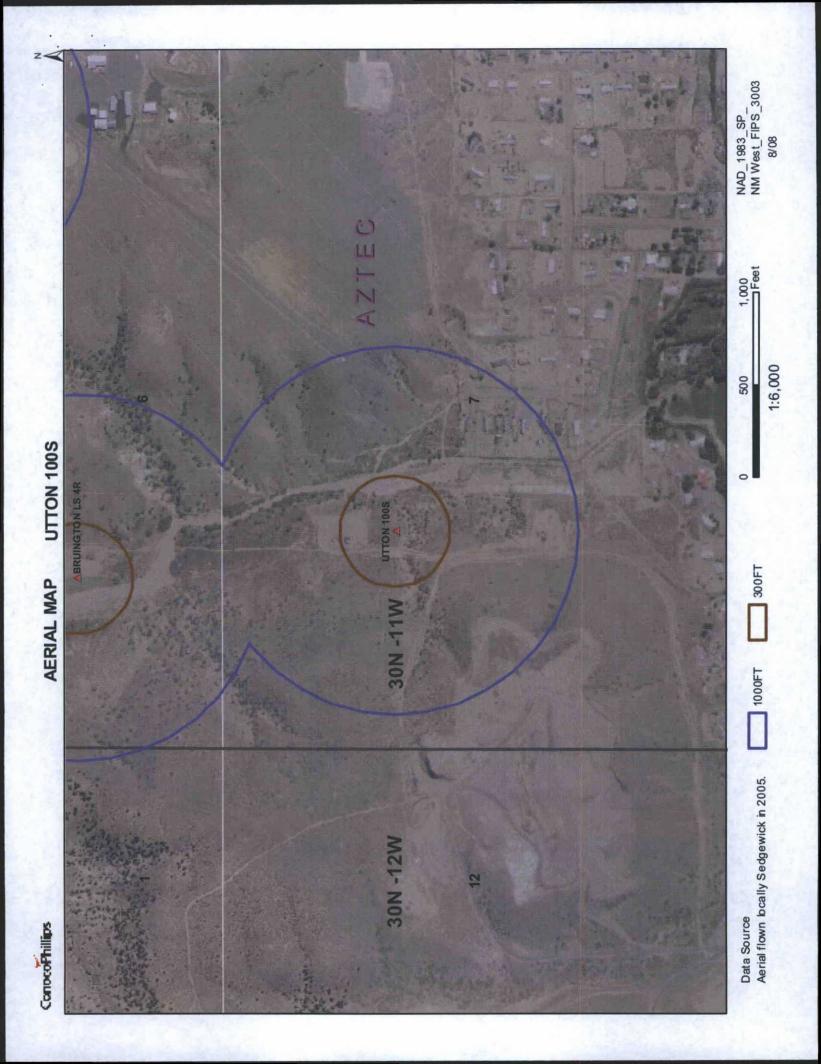
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SJ 03419	30N	11W 08		-	2			41	9	32
SJ 01722	30N	11W 17		1				20	8	12
SJ 01528	30N	11W 17		1 1				26	10	16
SJ 03373	30N	11W 1			3			50	35	15
SJ 01948	30N	11W 17		1 2				21	3	18
SJ 02817	30N	11W 17			2			15	-	
SJ 01722 POD2	30N	11W 17		1 2			2116417	17	3	14
SJ 01722 POD2	30N	11W 1		1 3			2110411	27	7	20
SJ 03771 POD1	30N	11W 1		1 3			211517	20	6	14
	30N	11W 1		1 3			211517	20	6	14
SJ 03750 POD1		11W 1		1 3			211317	55	31	24
SJ 03319	30N							20	51	24
SJ 03436	30N	11W 1		1 4					10	20
SJ 03266	30N	11W 1			3		2115202	30		20
SJ 03821 POD 1	30N	11W 1			3	266918	2115392	13	1	
SJ 00745	30N	11W 1		2				54	30	24
SJ 00665	30N	11W 17		2 1				28	14	14
SJ 01342	30N	11W 1		2 1				26	5	21
SJ 00166	30N	11W 1		2 3				48	11	37
SJ 01057	30N	11W 1		2 3				63	28	35
SJ 01060	30N	11W 1		2 3				58	23	35
SJ 03241	30N	11W 1		2 3				75	20	55
SJ 03269	30N	11W 1			4			80	10	70
SJ 01200	30N	11W 1		2 4				50	20	30
SJ 03219	30N	11W 1			2			68	38	30
SJ 00159	30N	11W 1'		3 1				35	8	27
SJ 03276	30N	11W 1'		3 1				60	20	40
SJ 01296	30N	11W 1		3 2				50	10	40
SJ 03249	30N	11W 1'		3 2				55	12	43
SJ 01810	30N	11W 1'		3 4				29	9	20
SJ 00411	30N	11W 1'		4 1				60	25	35
SJ 00234	30N	11W 1'		4 1				54	23	31
SJ 01847	30N	11W 1'		4 1				30	6	24
SJ 00457	30N	11W 1'			. 2			52	18	34
SJ 03853 POD1	30N	11W 1'		4 1			2114984	60		
SJ 00650	30N	11W 1'		4 1				49	18	31
SJ 02018	30N	11W 1'		4 2				100	40	60
SJ 00136	30N	11W 1'		4 2				69	35	34
SJ 03261	30N	11W 1'		4 2				88	50	38
SJ 03718 POD1	30N	11W 1'			2			68	41	27
SJ 03854 POD1	30N	11W 18		1 1			2117585	45	20	25
SJ 01316	30N	11W 1			. 3			46	12	34
SJ 03152	30N	11W 18			. 3			52	22	30
SJ 03215	30N	11W 1			. 3			52	9	43
SJ 02996	30N	11W 1			2 1			50	25	25
SJ 03463	30N	11W 1			2 1			70	20	50
SJ 02805	30N	11W 1			2 1			60		
SJ 00932	30N	11W 1			2 4			32	15	17
SJ 01738	30N	11W 13		1 3				33	6	27
SJ 01733	30N	11W 1		1 3	3			29	9	20
SJ 01401	30N	11W 13		1 3				44	12	32
SJ 01786	30N	11W 1		1 3				35	10	25
SJ 03526	30N	11W 13	3		3 1			40		
SJ 03176	30N	11W 1	3	1 4	1 1			48	20	28
SJ 03344	30N	11W 1	3	1 4	2	0		100	8	92
SJ 03177	30N	11W 1		1 4	1 2	1		37	15	22
SJ 03801 POD1	30N	11W 1		2 2	2	266702	2116449	21	6	15
SJ 03800 POD1	30N	11W 1		2 2		266718		21	6	15
SJ 01639	30N	11W 1		2 2				40	18	22
				- 10 - 10		14 C		100.00		

SJ	02123	30N	11W	18	2	4	
SJ	02109	30N	11W	18	2	4	
SJ	02098	30N	11W	18	2	4	
SJ	03290	30N	11W	18	2	4	4
SJ	02045	30N	11W	18	4		
SJ	03322	30N	11W	18	4	4	1
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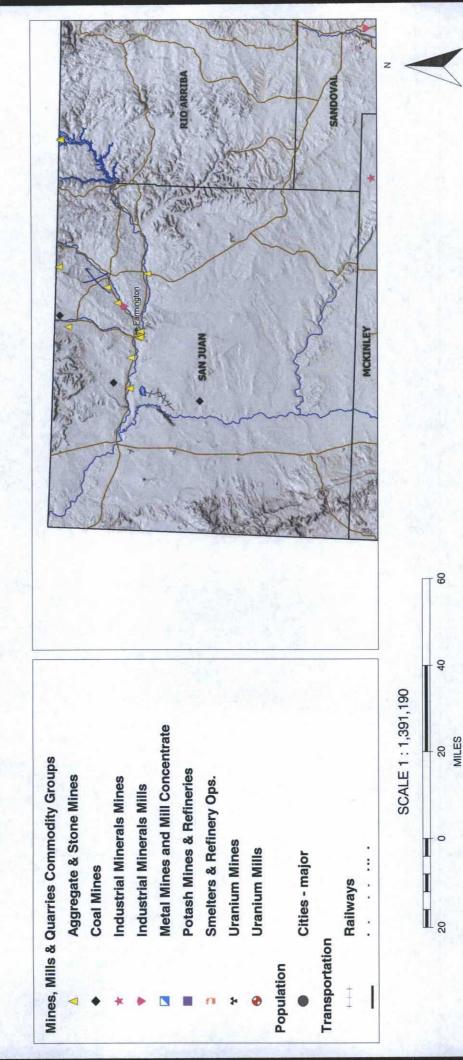
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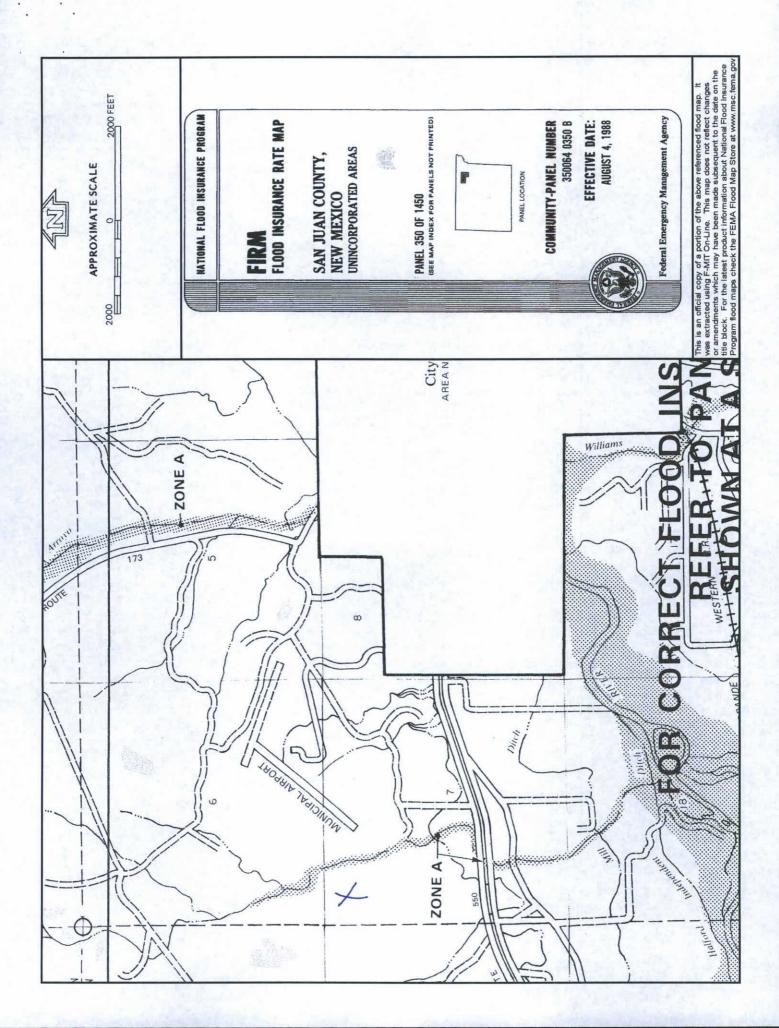
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19	4	15
21	7	14
40	10	30
480	200	280
40	10	30
80		
80		





Mines, Mills and Quarries Web Map/UTTON 100S





UTTON 100S

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'UTTON 100S', which is located at 36.831395 degrees North latitude and 108.0363 degrees West longitude. This location is located on the Flora Vista 7.5' USGS topographic quadrangle. This location is in section 7 of Township 30 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Aztec, located 2.5 miles to the east. The nearest large town (population greater than 10,000) is Farmington, located 11.6 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 0.5 miles to the south. The location is on BLM land and is 0 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 1744 meters or 5720 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Mixed Bedrock Canyon and Tableland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 64 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is named Kochis Arroyo and is 51 feet to the east and is classified by the USGS as a perennial stream. The nearest perrenial stream is named Kochis Arroyo and is 51 feet to the east. The nearest water body is 6,166 feet to the southeast. It is classified by the USGS as a water treatment reservoir and is 0.4 acres in size. The nearest spring is 28,751 feet to the southwest. 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 259 feet to the northwest. The nearest wetland is a 0.5 acre Freshwater Pond located 3,034 feet to the southeast. The slope at this location is 1 degree to the south as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION -- Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'River wash' and is poorly drained and all hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 10.0 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 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.

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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.

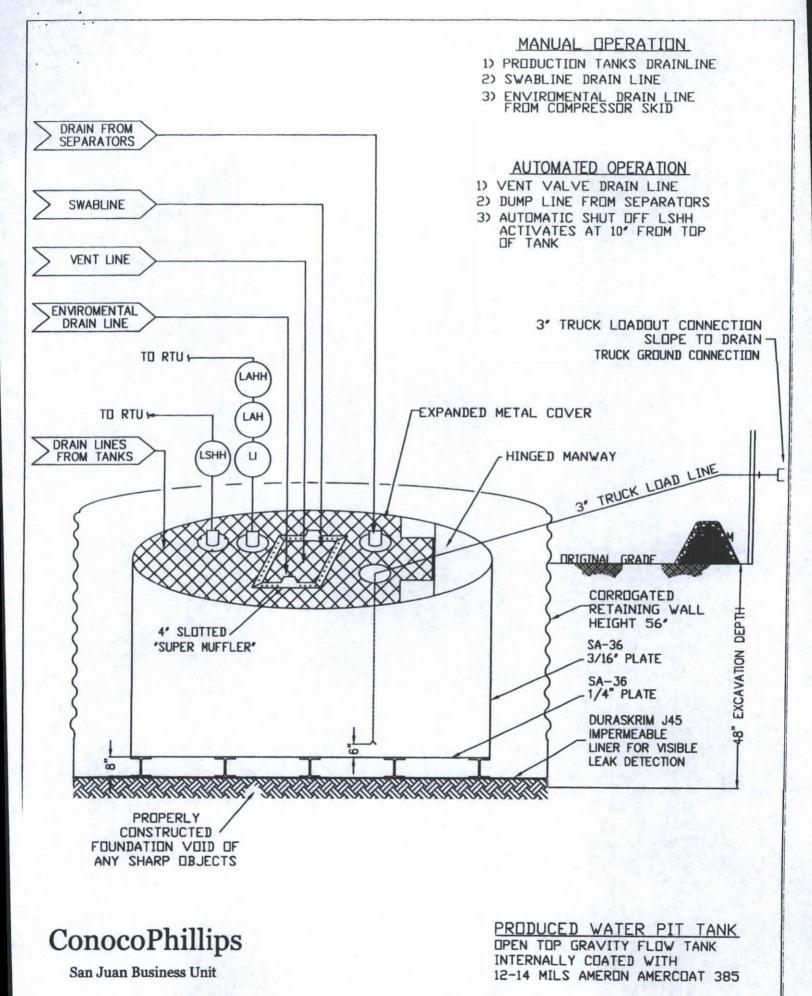
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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.



DURA-SKRIM®

PROPERTIES	TEST METHOD	J30BB		J36BB		J45BB	
$f(\mathbf{r}_{i}) = \int_{-\infty}^{\infty} \int_{-\infty}$		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 reinforce					cement
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 disclaims all liability for resulting loss or damage.

R A V E N INDUSTRIES

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

J30, J36 & J45

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 REFERED 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.
- 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 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)

Site Specific Hydrogeology

19,15.17.10 Siting requirements

New Mexico Office of State Engineer attachment

USGS TOPO map

Aerial Map

Mines, Mills and Quarries Web Map

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

19,15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

Requirements:

Registration Date: 2/2/2016