625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-144 July 21, 2008
RELISTER	RED artment vation Division St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
000 Rio Brazos Rd., Aztec, NM 87410 <u>histrict IV</u> 220 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.
	Pit, Closed-Loop System, Below-Grad	e Tank, or
Propos	sed Alternative Method Permit or Closur	re Plan Application
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	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	
Instructions: Please submit one of	application (Form C-144) per individual pit, closed-loo	op system, below-grade tank or alternative request
	of this request does not relieve the operator of liability should operations r lieve the operator of its responsibility to comply with any other applicable	
Operator: Burlington Resources O Address: PO Box 4289, Farmingto		OGRID#: 14538
Facility or well name: SAMMONS		
	3004533010 OCD Permit Numbe	Г:
/L or Qtr/Qtr: 0 Secti		2W County: San Juan
Center of Proposed Design: Latitud		-108.11747°W NAD: X 1927 1983
urface Owner: Federal	State X Private Tribal Trust or India	Allotment
<u>Pit:</u> Subsection F or G of 19.15.1		
Temporary: Drilling Word Permanent Emergency O Lined Unlined L String-Reinforced Liner Seams: Welded F Closed-loop System: Subsec Type of Operation: P&A C Drying Pad Above Group Lined Lined	rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume: tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) and Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE F	HDPE PVC Other
Temporary: Drilling Word Permanent Emergency O Lined Unlined L String-Reinforced Liner Seams: Welded F Closed-loop System: Subsec Type of Operation: P&A C Drying Pad Above Group Lined Lined	rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume: 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 F actory Other 1 of 19.15.17.11 NMAC	HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Temporary: Drilling Word Permanent Emergency O Lined Unlined L String-Reinforced Unlined Emergency Liner Seams: Welded F Closed-loop System: Subsect Type of Operation: P&A Drying Pad Above Group Liner Seams: Welded Liner Seams: Welded Welded F K Below-grade tank: Subsection Volume: 120 t Tank Construction material: Secondary containment with leak d Visible sidewalls and liner [rkover Cavitation P&A iner type: Thicknessmil LLDPE actory Other Volume: tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) and Steel Tanks Haul-off Bins Other rtype: Thicknessmil LLDPE H actory Other I of 19.15.17.11 NMAC bl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or HDPE PVD Other IDPE PVD Other
Temporary: Drilling Word Permanent Emergency O Lined Unlined L String-Reinforced Unlined Emergency Liner Seams: Welded F Closed-loop System: Subsect Type of Operation: P&A Drying Pad Above Group Lined Unlined Liner Seams: Welded K Below-grade tank: Subsection Volume: 120 t Tank Construction material: Secondary containment with leak d	rkover Cavitation P&A iner type: Thickness mil LLDPE actory Other Volume: 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 r type: Thickness mil LLDPE F actory Other I of 19.15.17.11 NMAC bl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or HDPE PVD Other
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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
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
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13 Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S. Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: 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)
15 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
<u>Please indicate, by a check mark in the box, that the documents are attached.</u>
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
 X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
x Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

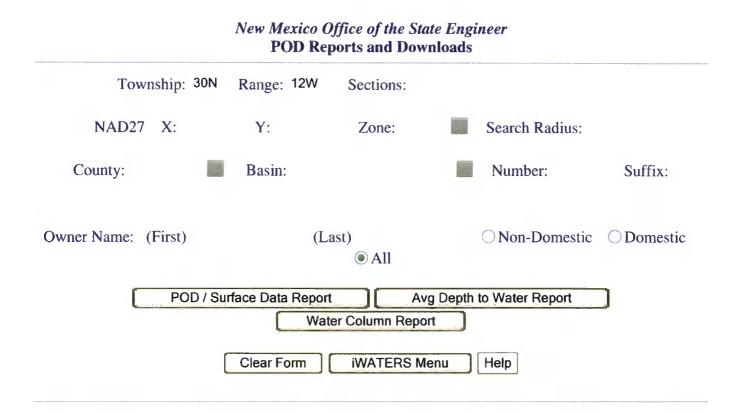
16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.17) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if m	3.D NMAC) ore than two facilities
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used Yes (If yes, please provide the information No	d for future service and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15 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	.17.13 NMAC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material ar certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be s for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance	ubmitted to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa (measured from the ordinary high-water mark).	lake Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock wa purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	atering
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance a pursuant to NMSA 1978. Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	idopted Yes No
Within 500 feet of a wetland	Yes No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.	Yes No
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Socie Topographic map 	
Within a 100-year floodplain. - FEMA map	Yes No
18 <u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached t by a check mark in the box, that the documents are attached.	to the closure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11	NMAC
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requir	rements of 19.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.	13 NMAC
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure s Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	tandards cannot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

	on Certification:	
I hereby certify that the	information submitted with this application is true, accurate and complete to	o the best of my knowledge and belief.
Name (Print):	Crystal Tafoya Title:	Regulatory Technician
Signature:	Date: Date:	12/22/2008
e-mail address:	en/stal taloya@conocophillins.com	505-326-9837
0 DCD Approval:	Permit Application (including closure plan) Closure Plan (o	nly) OCD Conditions (see attachment)
		(see attachment)
CD Representative	e Signature:	Approval Date:
litle:	OCD	Permit Number:
·····		
	uired within 60 days of closure completion): Subsection K of 19.15.17.13 /	
nstructions: Operators	s are required to obtain an approved closure plan prior to implementing any	closure activities and submitting the closure report. The closure
	submitted to the division within 60 days of the completion of the closure act	ivities. Please do not complete this section of the form until an
pprovea ciosure-pian i	has been obtained and the closure activities have been completed.	
		osure Completion Date:
12		
Closure Method:		
8	on and Removal On-site Closure Method Alternative Clo	Waste Removal (Closed-loop systems only)
	n approved plan, please explain.	
3		
	ding Waste Removal Closure For Closed-loop Systems That Utilize Abov	
ere utilized.	entify the facility or facilities for where the liquids, drilling fluids and drill	cultings were disposed. Use allachment if more than two facilities
Disposal Facility Na	me: Disposal Fa	cility Permit Number:
Disposal Facility Na		cility Permit Number:
Were the closed-loop	p system operations and associated activities performed on or in areas that w	ill not be used for future service and opeartions?
Yes (If yes, plea	ase demonstrate complilane to the items below)	
Required for impact	ed areas which will not be used for future service and operations:	
Site Reclamatio		
	on (Photo Documentation)	
Ξ .	on (Photo Documentation) and Cover Installation	
Ξ .	on (Photo Documentation)	
Re-vegetation A	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique	
Re-vegetation A	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be	e attached to the closure report. Please indicate, by a check mark in
Closure Report A the box, that the doc	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique	e attached to the closure report. Please indicate, by a check mark in
Closure Report A the box, that the doc Proof of Closu	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached.	e attached to the closure report. Please indicate, by a check mark in
	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. tre Notice (surface owner and division)	e attached to the closure report. Please indicate, by a check mark in
	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. we Notice (surface owner and division) Notice (required for on-site closure)	e attached to the closure report. Please indicate, by a check mark in
	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. are Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits)	e attached to the closure report. Please indicate, by a check mark in
	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. The Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable)	e attached to the closure report. Please indicate, by a check mark in
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	on (Photo Documentation) and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructions: Each of the following items must be cuments are attached. Instructi	e attached to the closure report. Please indicate, by a check mark in
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	and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be currents are attached. The Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable) all Sampling Analytical Results (if applicable) ity Name and Permit Number g and Cover Installation Application Rates and Seeding Technique ion (Photo Documentation)	
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	and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. Ire Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable) all Sampling Analytical Results (if applicable) all Sampling Analytical Results (if applicable) ity Name and Permit Number g and Cover Installation Application Rates and Seeding Technique ion (Photo Documentation) re Location: Latitude: Longitude: ertification: information and attachments submitted with this closure report is ture, accut th all applicable closure requirements and conditions specified in the approx	NAD 1927 1983
	and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. are Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable) al Sampling Analytical Results (if applicable) al Sampling Analytical Results (if applicable) ity Name and Permit Number g and Cover Installation Application Rates and Seeding Technique ion (Photo Documentation) re Location: Latitude: Longitude: ertification: information and attachments submitted with this closure report is ture, accus th all applicable closure requirements and conditions specified in the approx Title:	NAD 1927 1983 rate and complete to the best of my knowledge and belief. I also certify that
	and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. Ire Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable) all Sampling Analytical Results (if applicable) all Sampling Analytical Results (if applicable) ity Name and Permit Number g and Cover Installation Application Rates and Seeding Technique ion (Photo Documentation) re Location: Latitude: Longitude: ertification: information and attachments submitted with this closure report is ture, accut th all applicable closure requirements and conditions specified in the approx	NAD 1927 1983
	and Cover Installation Application Rates and Seeding Technique Attachment Checklist: Instructions: Each of the following items must be cuments are attached. are Notice (surface owner and division) Notice (required for on-site closure) on-site closures and temporary pits) Sampling Analytical Results (if applicable) al Sampling Analytical Results (if applicable) al Sampling Analytical Results (if applicable) ity Name and Permit Number g and Cover Installation Application Rates and Seeding Technique ion (Photo Documentation) re Location: Latitude: Longitude: ertification: information and attachments submitted with this closure report is ture, accus th all applicable closure requirements and conditions specified in the approx Title:	NAD 1927 1983NAD 1927 1983NAD _

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WATER COLUMN REPORT 12/16/2008

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							smallest			Depth	Depth	Wate
POD Number	Tws		Sec				Zone	х	Y	Well	Water	Colun
SJ 02643	30N	12W	02	3	3	2				195	140	5
SJ 02707	30N	12W	02	3	4	3				235	135	1(
SJ 02145	30N	12W	04	1	1	1				160	110	5
SJ 02341	30N	12W		4	3					85	39	4
SJ 01898	30N	12W	04	4	3					140	88	Ę
SJ 01692	30N	12W		4	3					156	65	ç
SJ 01798	30N	12W	04	4	3					158	70	3
SJ 01792	30N	12W		4	3					155	109	Ļ
SJ 03058	30N	12W		4	3	3				120	48	7
SJ 03447	30N	12W		4	4	4				120	80	Ĺ
SJ 03767 POD1	30N	12W		2	4	2	265	151	2121325	265	82	18
SJ 02128	30N	12W		3	4					140	60	3
SJ 00945	30N	12W		3	4					130	70	E
SJ 00421	30N	12W		4	4					126	43	8
SJ 00142	30N	12W	11	4	4	2				192	122	1
SJ 00651	30N	12W		4	4	4				193	123	1
SJ 03129	30N	12W	-	3	4	2				44	35	
SJ 03027	30N	12W		3	4	3				100		-
SJ 00384	30N	12W		4	3	2				57	20	3
SJ 03020	30N	12W	12	4	3	4				52	30	2
SJ 00643	30N			4	4					75	51	2
SJ 03757 POD1	30N	12W		4	4		266	123	2118278	22	12	1
SJ 00322	30N			4	4	1				66	40	۷
SJ 00888	30N	12W		1						81	50	(T)
SJ 00518	30N	12W		1						55	15	4
SJ 00935	30N	12W		1						54	10	2
SJ 00316	30N	12W			1					56	30	2
SJ 00337	30N	12W	13	1	1					43	17	2

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SJ 00773	30N	12W 13	1	1	1	6	8 .	50 1
SJ 00821	30N	12W 13	1	3	-	4		L5 2
SJ 03063	30N	12W 13	1	3	1	4		25 1
SJ 02803	30N	12W 13	2	2	2	6		13 2
SJ 02114	30N	12W 13	2	2	4	4		±J 2
SJ 01403	30N	12W 13	2	2	4	5		15 3
				2	4	6		25 3
SJ 01773	30N	12W 13	3	2				
SJ 00299	30N	12W 13	3	2	1	4		18 3
SJ 00123	30N	12W 14		1	T	6		
SJ 00854	30N	12W 14	1	4		8		50 3
SJ 00667	30N	12W 14	2	2	4	6		45 1
SJ 01161	30N	12W 14	2	4		3		20 1
SJ 00596	30N	12W 14	3	1		7		26 4
SJ 00105	30N	12W 14	3	1		3		25 1
SJ 00735	30N	12W 14	3	1	3			30 2
SJ 00676	30N	12W 14	3	2		5		30 2
SJ 00574	30N	12W 14	3	2				50 2
SJ 03318	30N	12W 14	3	3	4		0	
SJ 00129	30N	12W 14	3	4				10 4
SJ 00107	30N	12W 14	3	4		5		15 3
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SJ 03643	30N	12W 14	4	2	4	4	0	15 2
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SJ 02168	30N	12W 15				7	8	50 2
SJ 00367	30N	12W 15				9	5 5	50 4
SJ 01178	30N	12W 15	1	4		11	0 1	BO 3
SJ 03401	30N	12W 15	1	4	3	18	0 !	56 12
SJ 01881	30N	12W 15	2			15	7 10	00 E
SJ 00817	30N	12W 15	2	3	4	9	6 !	53 4
SJ 03108	30N	1.2W 15	2	4	1	11	0 2	٤ 29
SJ 03432	30N	12W 15	2	4	2	16	5 10	05 €
SJ 01162	30N	12W 15	3			5	0	
SJ 00145	30N	12W 15	3			16	5	60 1(
SJ 00709	30N	12W 15	3			5	2 2	20 3
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SJ 03238	30N	12W 15		3	2	7	5	30 4
SJ 02760	30N	12W 15	3	3	2	5	0	21 2
SJ 00928	30N	12W 15	3	4		6	8	32 3
SJ 00710	30N	12W 15	3	4		9	0	30 E
SJ 00816	30N	12W 15	3	4		5	8	30 2
SJ 00717	30N	12W 15	3	4		10		60 4
SJ 00684	30N	12W 15	3	4				30 4
SJ 01215	30N	12W 15	3	4				30 3
SJ 01037	30N	12W 15	3					20 3
SJ 00829	3 0 N	12W 15	3					30 3
	30N	12W 15	3					40 E
SJ 00714		12W 15 12W 15		4				30 E
SJ 00730	30N	12W 15 12W 15		4 4				30 E
SJ 00731	30N	12W 15 12W 15		4				35 2
SJ 00912	30N	LAW ID	C	4				

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SJ 03059	30N	12W 22	3	2	2	61	24	3
SJ 03060	30N	12W 22	3	2	2	57	21	, (,)
SJ 03500	30N	12W 22	3	3	1	56	24	1 (1)
		12W 22	3	3	2	46		
SJ 03157	30N				4		18	
SJ 01312	30N	12W 22	3	4		38	20	1
SJ 00569	30N.	12W 22	3	4		44	10	3
SJ 01165	30N	12W 22	3	4		42	14	2
SJ 01393	30N	12W 22	3	4		39	12	2
SJ 03317	30N	12W 22	3	4	2	50		
SJ 02008	30N	12W 22	4	1		42	7	3
SJ 01614	30N	12W 22	4	1		45	7	(*) (*)
SJ 02014	30N	12W 22	4	1		45	10	•
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SJ 00224	30N	12W 22	4	2	1	48	22	2
SJ 02305	30N	12W 22	4	2	1	41	20	2
SJ 02133	30N	12W 22	4	3	T	40	14	2
					2			2
SJ 00903	30N	12W 22	4	3	3	45	10	12
SJ 01464	30N	12W 22	4	3	3	40	15	2
SJ 03473	30N	12W 22	4	3	3	40	0	-
SJ 03233	30N	12W 22	4	3	3	42	8	(*) (*)
SJ 01340	30N	12W 22	4	3	4	40	9	
SJ 01386	30N	12W 22	4	3	4	40	12	2
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SJ 01980	30N	12W 22	4	4		20	5	1
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SJ 01168	30N	12W 23				33	13	2
SJ 00869	30N	12W 23	1	1		42	12	•••
SJ 02995	30N	12W 23		1	1	62	24	3
SJ 02221	30N	12W 23		1	3	47	12	3
SJ 03510	30N	12W 23	1		4	40	3	0 (*)
	30N	12W 23	1		4	39	6	, (*)
SJ 01035		12W 23	1	2		35	13	~ (4
SJ 01021	30N					35	15	2
SJ 00644	30N	12W 23	1		1			2
SJ 00642	30N	12W 23	1		1	45	12	<u> </u>
SJ 00449	30N	12W 23	1		1	2.0		
SJ 02826	30N	12W 23	1		4	30	2 5	~
SJ 02288	30N	12W 23		3	3	40	15	2
SJ 00538	30N	12W 23		4		37	6	(*) (
SJ 00537	30N	12W 23		4		37	6	(1)
SJ 00934	30N	12W 23		4		31	5	2
SJ 01959	30N	12W 23		4		25	10	1
SJ 00186	3 0 N	12W 23	1	4	4	31	4	2
SJ 01750	30N	12W 23	2			34	12	2
SJ 02742	30N	12W 23	2	1		28	10	1
SJ 01074	30N	12W 23	2	1		26	10	1
SJ 00244	30N	12W 23	2	1	2	40	2	(*)
SJ 00318	30N	12W 23		2		41	2	
SJ 02112	30N	12W 23		2		3.0	5	(*) (V
	30N	12W 23		2		43	8	
SJ 01461		12W 23	2			40	3	0
SJ 00475	30N				1	40	6	
SJ 02767	30N	12W 23		2		39	2	[1] [1] [1] [1]
SJ 02767 RPR	30N	12W 23		2				(1) (1)
SJ 00856	30N	12W 23		2	2	40	10	
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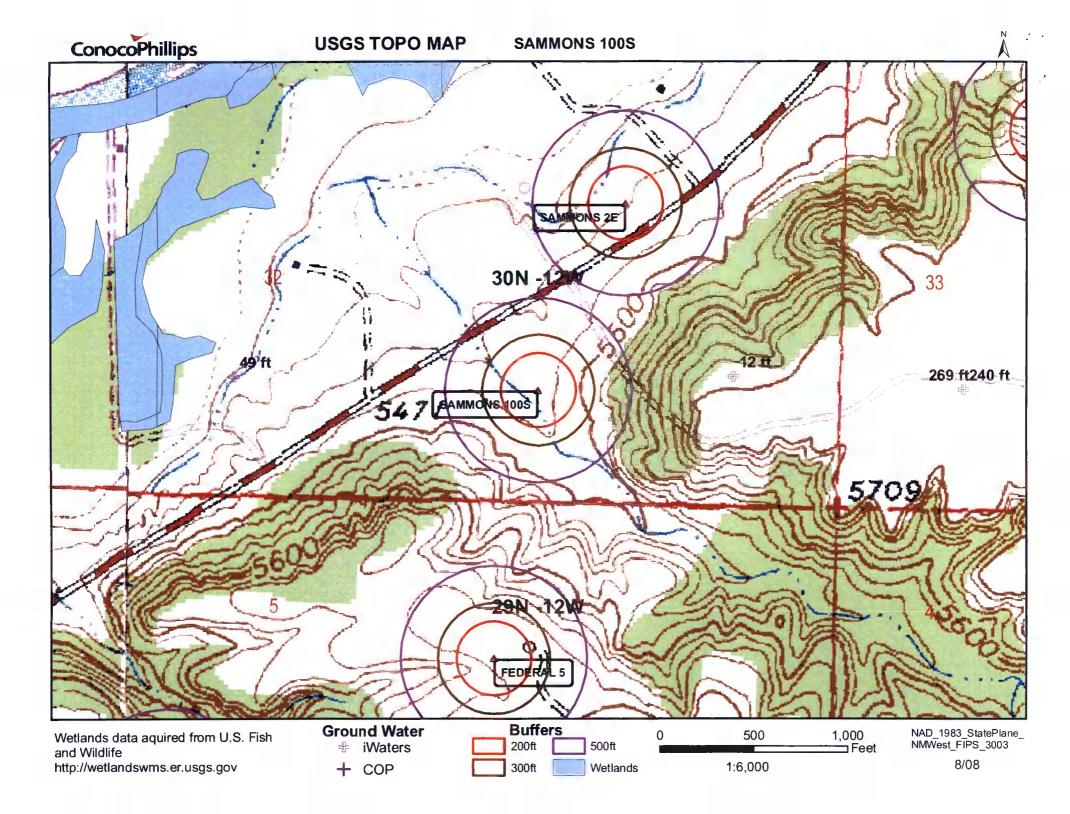
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SJ 03770 POD1	30N	12W 23	2	3 2	2	265563	211067	25	5	2
SJ 02788	30N	12W 23	2	3 3	3			45	27	1
SJ 00923	30N	12W 23	2	4				23	10	1
SJ 02940	30N	12W 23	2	4 1	1			32	19	1
SJ 03601	30N	12W 23	2	4 2	2			34	15	1
SJ 03657	30N	12W 23	3	2 1	1			21	5	1
SJ 03366	30N	12W 23		2 3	3			21	20	
SJ 03552	30N	12W 23		2 3	3			80		
SJ 03551	30N	12W 23		2 4	4			28	10	1
SJ 00588	30N	12W 23		3 1	1			22	4	1
SJ 02921	30N	12W 23		3 1	_			23		-
SJ 00588 1-EXPL	30N	12W 23		3 3				25	6	1
SJ 03226	30N	12W 23	-	4 3				38	10	2
SJ 03816 POD1	30N	12W 23	-	4 3		265343	2107306	32	6	2
SJ 01276	30N	12W 23		4 4		200010	210/000	18	8	1
SJ 01148	30N	12W 23	4		1			140	80	E
SJ 03380	30N	12W 23		1 1	1			42	7	, r.)
SJ 03375	30N	12W 23		1 1				42	7	, (*)
SJ 03575	30N	12W 23		13				22	6	1
	30N	12W 23	-	1 3				21	9	1
SJ 02653	30N	12W 23		1 3				25	6	1
SJ 03665		12W 23	-	1 4	_			32	8	2
SJ 03663	30N	12W 23 12W 23		1 4 2	4			31	0 7	4
SJ 01513	30N	12W 23			1			35	12	2
SJ 01272	30N									2
SJ 03506	30N	12W 23		2 2				40	8	2
SJ 03156	30N	12W 23		2 2				14	8	1
SJ 00117	30N	12W 23		2 3				38	20	1
SJ 00114	30N	12W 23		23	3			40	20	
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SJ 00111	30N	12W 23		3				28 40	20	2
SJ 00896	30N	12W 23			1			38	10	2
SJ 03638	30N	12W 23 12W 24		4 1 3	1			38	10	2
SJ 00633	30N	12W 24 12W 24		3 4				27	5	2
SJ 02616	30N	12W 24 12W 24		4				22	4	2
SJ 01682 SJ 01681	30N 30N	12W 24 12W 24		4				22	4	1
	30N	12W 24 12W 24	2					22	4	1
SJ 01680 SJ 00691	30N	12W 24	3					30	15	1
SJ 00686	30N	12W 24		1 1	1			20	10	1
SJ 00404	30N	12W 24		1 3				54	44	1
SJ 01511	30N	12W 24		2	5			60	30	
SJ 03054	30N	12W 24		2 3	1			43	22	2
SJ 03034 SJ 01429	30N	12W 25	4	4 -	Ŧ			230	150	Ē
	30N	12W 25		1 2	2			100	100	
SJ 03008	30N	12W 25		1 4				75	18	Ę
SJ 03418 SJ 01427	30N	12W 25	4		4			147	70	5
	30N	12W 25		1 3	3	265470	2106124	175	80	ç
SJ 03799 POD1	30N	12W 20	3		5	200470	2100124	114	40	5
SJ 00429								35	5	
SJ 02032	30N	12W 27	1					36	15	
SJ 00127 X	30N	12W 27	1					30	15	2
SJ 00127	30N	12W 27	1							∠ 1
SJ 01646	30N	12W 27	1					23	6	
SJ 01599	30N	12W 27	1					25	6	1
SJ 01617	30N,	12W 27	1		-			24	4	2
SJ 01239	30N	12W 27		3 .				23	5	1
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SJ 02829	30N	12W 27	1	4	2			26	10	1

.

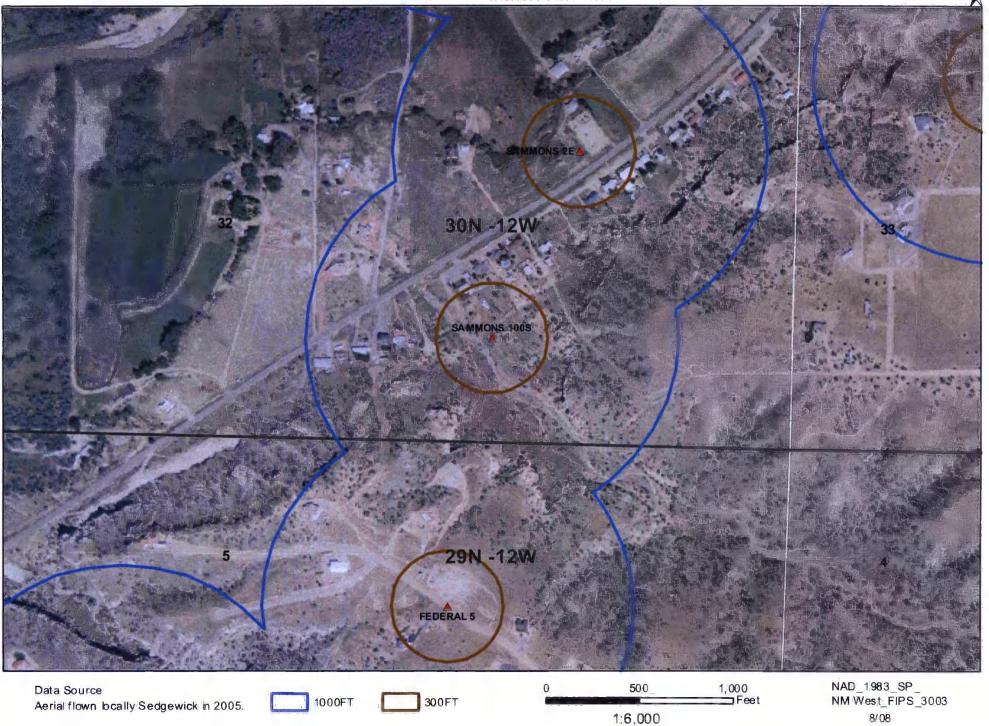
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SJ 01988	30N	12W 27	2	1					29	18	1
SJ 02620	30N	12W 27	2	1	1				30	10	2
SJ 03254	30N	12W 27	2	1	1				35	10	2
SJ 03243	30N	12W 27	2	1	2				35	6	2
SJ 02784	30N	12W 27	2	1	2				30		
SJ 00276	30N	12W 27	2	1	2				35	3	3
SJ 03433	30N	12W 27		1	2				25		
SJ 03496	30N	12W 27		1	4				50	10	4
SJ 03120	30N	12W 27		3	2				70		
SJ 02498	30N	12W 27		1	1				21	5]
SJ 00844	30N	12W 27		1	2	0.6454.0		04.004.00	31	12	1
SJ 03761 POD1	30N	12W 27		3	1	264712		2103138	65	35	3
SJ 03542	30N	12W 27	-	3	4				8	4	~
SJ 01572 SJ 03227	30N	12W 27 12W 27	4	1	2				43 70	23 55	∠ 1
SJ 03641	30N 30N	12W 27		3	3 2				60	25	1
SJ 00282	30N	12W 27	4	2	4				84	52	4 (2)
SJ 00122 CLW283728	30N	12W 28	1	3					126	61	E
SJ 01309	30N	12W 28	1	3					55	32	4
SJ 00122	30N	12W 28	1	3	2				80	40	4
SJ 02142	30N	12W 28	1	4					55	35	2
SJ 01275	30N	12W 28			3				30	5	2
SJ 02016	30N	12W 28	2	1					120	56	E
SJ 01129	30N	12W 28	2	1	2				40	10	19
SJ 03702 POD1	30N	12W 28	2	2	3				30	5	2
SJ 03702	30N	12W 28	2	2	3				30	5	2
SJ 00346	30N	12W 28	2	3	1				41	15	2
SJ 03796 POD1	30N	12W 28	3	1	2	264258	3	2104657	22	5	1
SJ 02571	30N	12W 28		1	3				21	6	1
SJ 03096	30N	12W 28		3	4				125		
SJ 00669	30N	12W 28	4	4					70	30	Ź
SJ 02833	3.0N	12W 28	4	4	1				50	0.5	ć
SJ 03688 POD1	30N	12W 28	4	4	3				50	25	2
SJ 03383	30N	12W 28	4	4	3				50. 50	20	(T) (
SJ 03688	30N	12W 28 12W 29		4	3				297	25 100	19
SJ 02022 SJ 03187	30N 30N	12W 29 12W 29	3 3	1	1				160	29	13
SJ 02476	30N	12W 29	3	2	1				225	185	4
SJ 03280	30N	12W 29		2	4				100	100	-
SJ 03358	30N	12W 29		3	1				100	60	4
SJ 03278	30N	12W 29		3	3				120	40	3
SJ 03279	30N	12W 29		3	4				120	60	e
SJ 00536	30N	12W 29	4						50	28	2
SJ 02309	30N	12W 29	4	1	2				50	27	2
SJ 02306	30N	12W 29	4	4	1				44	25	1
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SJ 01006	30N	12W 30	1						38	16	2
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SJ 03361	30N	12W 31			4				150		
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SJ 00223	30N	12W 31	2	4					63	22	Ĺ

SJ 00170	30N	12W 31	2	4		45	20	2
SJ 03236	30N	12W 31	2	4	2	63	15	Ļ
SJ 03331	30N	12W 31	2	4	2	67	18	Ļ
SJ 03174	30N	12W 31	2	4	2	60	46	1
SJ 03161	30N	12W 31	2	4	3	62	47	1
SJ 03252	30N	12W 31	2	4	4	42	11	3
SJ 03150	30N	12W 31	2	4	4	53	30	(") (N
SJ 03237	30N	12W 31	2	4	4	70		
SJ 01236	30N	12W 31	3	2		50	38	1
SJ 02815	30N	12W 31	3	4	2	30		
SJ 03148	30N	12W 31	4	1	1	56	34	2
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SJ 03147	30N	12W 31	4	1	2	49	28	2
SJ 02867	30N	12W 31	4	1	2	28	14	1
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SJ 02792	30N	12W 31	4	1	2	49	30	1
SJ 03296	30N	12W 31	4	1	2	56	30	2
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SJ 02207	30N	12W 32	1			25	4	2
SJ 02208	30N	12W 32	1			25	4	2
SJ 01664	30N	12W 32	1	1	1	32	16	1
SJ 03610	30N	12W 32	1	1	2	80	50	(*)
SJ 03517	30N	12W 32	1	1	2	60	30	3
SJ 03523	30N	12W 32	1	1	2	77	42	3
SJ 03516	30N	12W 32	1	1	2	70	35	(**)
SJ 03511	30N	12W 32	1	1	4	60	30	(*)
SJ 03518	30N	12W 32	1		4	60	3.0	3
SJ 03522	30N	12W 32	1	1	4	70	35	3
SJ 03521	30N	12W 32	1	1	4	55	25	(*)
SJ 03520	30N	12W 32	1	1	4	55	25	(*)
SJ 03519	30N	12W 32	1	1	4	55	25	(*)
SJ 03515	30N	12W 32		1		70	35	(*) (*) (*)
SJ 03514	30N	12W 32		1		70	35	63
SJ 03513	30N	12W 32		1		60	30	-
SJ 03512	30N	12W 32		1		60	30	(*)
SJ 03494	30N	12W 32		2	3	50		
SJ 03221	30N	12W 32	1		3	50	12	(°)
SJ 03629	30N	12W 32		2		60	20	Ļ
SJ 03217	30N	12W 32		2	3	42	12	
SJ 02214	30N	12W 32		3		30	12	1
SJ 02214 X	30N	12W 32		3		31	15	1
SJ 02262	30N	12W 32		3		25	1 1	7
SJ 02211	30N	12W 32		3		25	11	1
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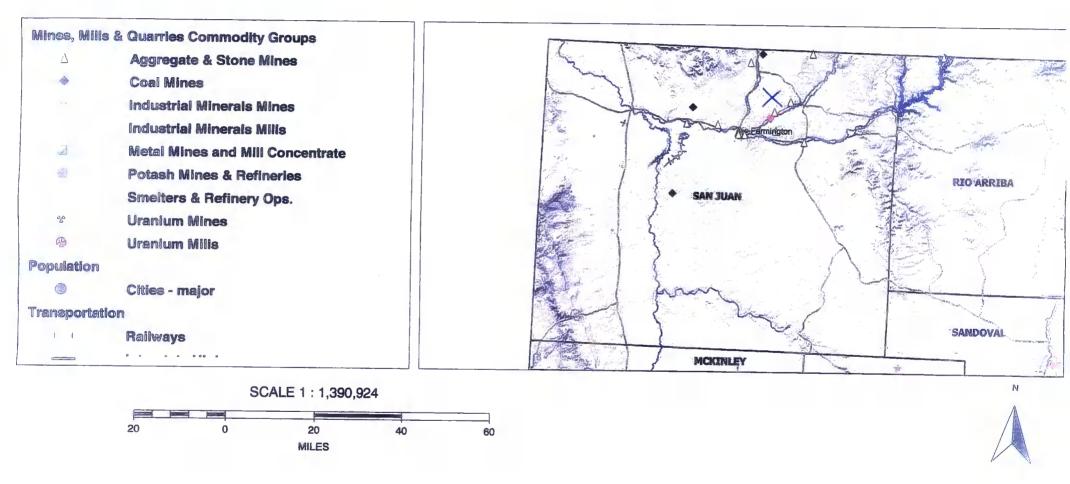
ConocoPhillips

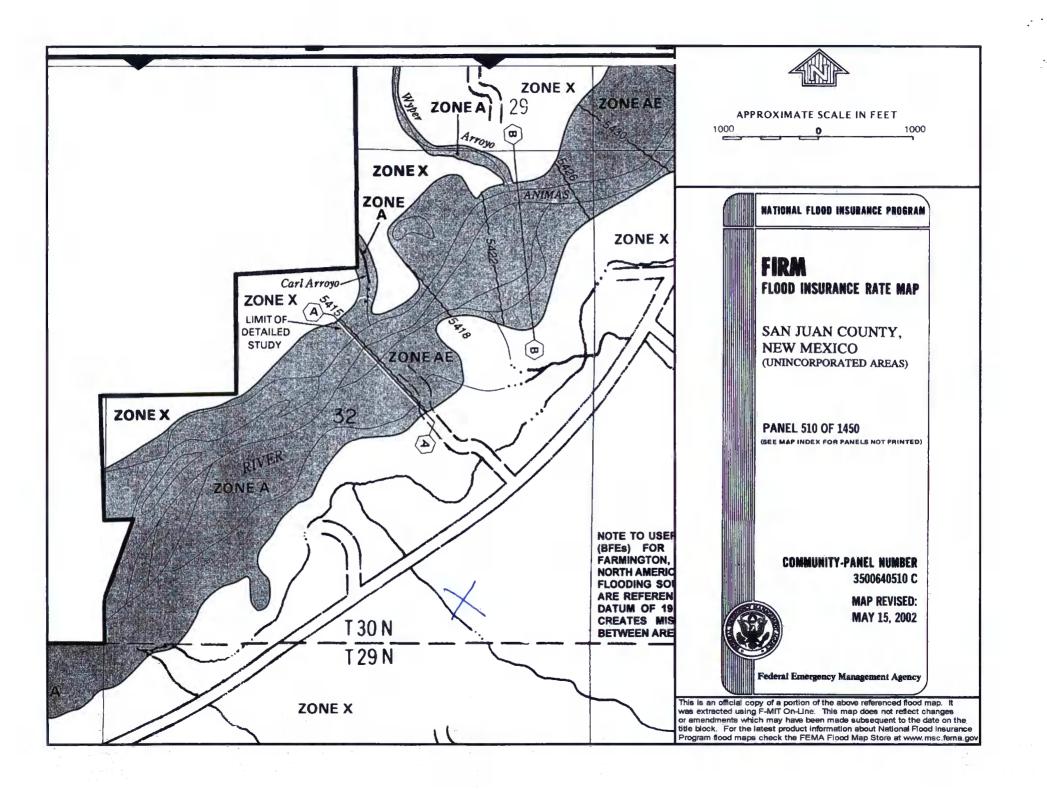
AERIAL MAP SAMMONS 100S



8/08

MMQonline Public Version Map





SAMMONS 100S

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAMMONS 100S', which is located at 36.7637 degree, North latitude and 108.11747 degree, West longitude. This location is located on the Flora Vista 7.5' USGS topographic quadrangle. This location is in section 32 of Township 29 North Range 12 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 Flora Vista, located 4.6 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 5.3 miles to the west (National Atlas). The nearest highway is US Highway 550, located 1.1 miles to the northwest. The location is on Private land and is 3,279 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 1672 meters or 5484 feet above sea level and receives 10 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 -5 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 200 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Animas River and is 2,508 feet to the northwest. The nearest water body is 2,496 feet to the north. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 5,505 feet to the northeast. 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 193 feet to the southwest. The nearest wetland is a 12.1 acre Freshwater Forested/Shrub Wetland located 1.726 feet to the northwest. The slope at this location is 3 degree, to the northwest 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 9.1 miles to the southwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

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

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

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3,500 feet.

Hydraulic Properties:

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

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

References:

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

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

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

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

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

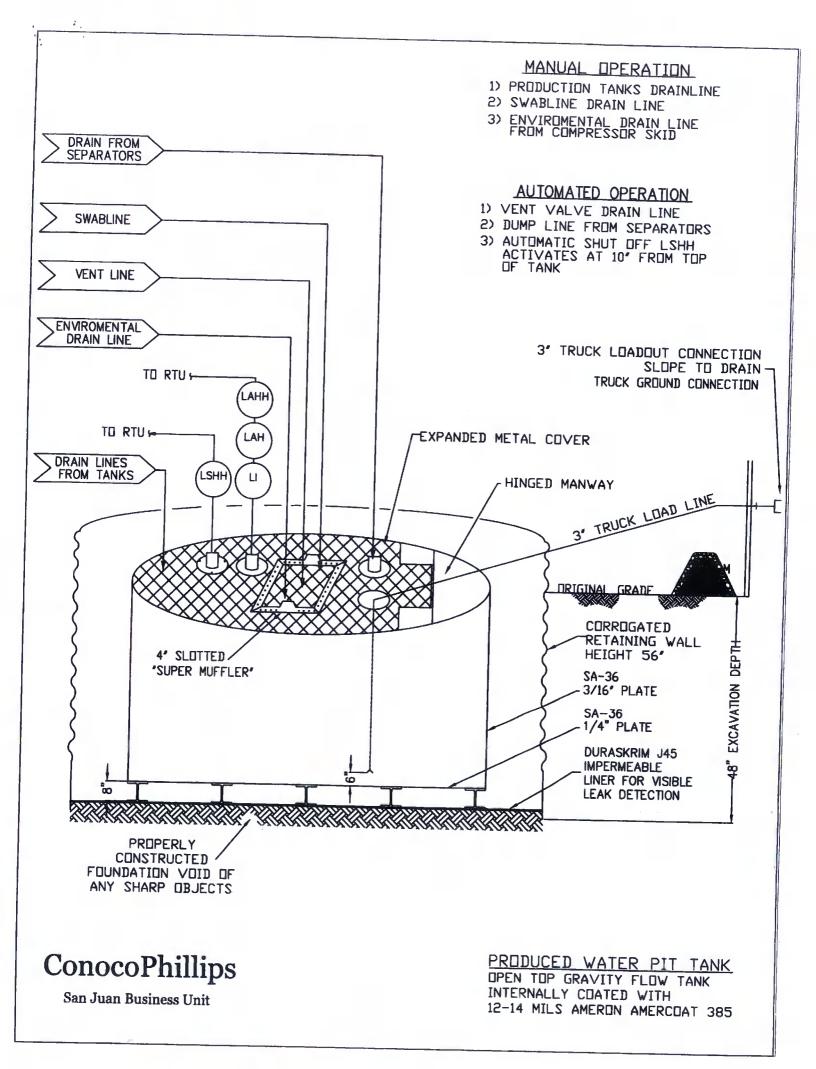
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

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

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



DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J.	30BB	J3	6BB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages	
Appearance		Blac	k/Biack	Black	<pre>v/Black</pre>		/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	24	**Ext	rusion laminated					
Ply Adhesion ASTM D 413	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 ME 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	
Trapezold 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						
Minimum Use Temperature		-70° F						

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.



PLANT LOCATION

SALES OFFICE

Sioux Falls, South Dakota

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

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:

- 1. BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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