District I

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



Form C-144 July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action: X Permit of a pit, closed-loop system, below-grade tank, 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 permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: KESSLER COM 3A
API Number: 3004529903 OCD Permit Number:
U/L or Qtr/Qtr: A Section: 25 Township: 30N Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.78726°N Longitude: -107.93684°W NAD: X 1927 1983
Surface Owner: X Federal State Trivate Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, ins Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	ditution or ch	urch)
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)		
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		
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	sideration of a	pproval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - 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)	Yes XNA	No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. 	Yes	XNo
 NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended 	Yes	XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the proposed site of the proposed site.	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	XNo
Within a 100-year floodplain - FEMA map	Yes	X No

Temporary Pits, Emergency Pits and Below-grade Tanks Per	rmit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC ration. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon t	the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - ba	sed upon the requirements of Paragraph (2) of Subsection B of 19:15.17.9
X Siting Criteria Compliance Demonstrations - based upon the	he appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of	
X Operating and Maintenance Plan - based upon the appropri	
	plicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC	meante) - based upon the appropriate requirements of Subsection C of
	API or Permit
Previously Approved Design (attach copy of design)	Ari
Geologic and Hydrogeologic Data (only for on-site closure	ration. Please indicate, by a check mark in the box, that the documents are attached. - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 te closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropri	iate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if app NMAC and 19.15.17.13 NMAC	olicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
Previously Approved Design (attach copy of design)	API
Previously Approved Operating and Maintenance Plan	API
Permanent Pits Permit Application Checklist: Subsection B	of 10 15 17 0 NMAC
	lication. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Pa	
Siting Criteria Compliance Demonstrations - based upon the Climatological Factors Assessment	ne appropriate requirements of 19.15.17.10 NMAC
Certified Engineering Design Plans - based upon the appro	portate requirements of 19.15.17.11.NMAC
Dike Protection and Structural Integrity Design: based upon	
Leak Detection Design - based upon the appropriate require	
	upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Install	
Operating and Maintenance Plan - based upon the appropri	iate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the	he appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention I	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	
Type: Drilling Workover Emergency Cavitation Alternative	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 system	
On-site Closure Method (only for te	emporary pits and closed-loop systems)
	On-site Trench
Alternative Closure Method (Excep	otions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist; (19.15) Please indicate, by a check mark in the box, that the documents are att	5.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
X Protocols and Procedures - based upon the appropriate requ	
	e appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, dri	
	the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirement	
X Site Reclamation Plan - based upon the appropriate requirer	
the appropriate requires	none of Subsection G of 17.13.17.13 WINC

16		
Waste Removal Closure For Closed-loon Systems That Utilize Ab	ove Ground Steel Tanks or Haul-off Bins Only; (19.15.17.13.D NMAC) of liquids, drilling fluids and drill cuttings. Use attachment if more than two	facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
	ociated activities occur on or in areas that will not be used for future s	
Required for impacted areas which will not be used for future service	and operations:	
Soil Backfill and Cover Design Specification - based upon Re-vegetation Plan - based upon the appropriate requires	on the appropriate requirements of Subsection H of 19.15.17.13 NMA	ıC
Site Reclamation Plan - based upon the appropraite requ	tirements of Subsection G of 19.15.17.13 NMAC	
17 Siting Criteria (Regarding on-site closure methods only; 19 Instructions: Each siting criteria requires a demonstration of compliance in certain siting criteria may require administrative approval from the appropr for consideration of approval. Justifications and/or demonstrations of equiv	the closure plan. Recommendations of acceptable source material are provided beli riate district office or may be considered an exception which must be submitted to the	ow. Requests regarding changes to e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buries	d waste.	Yes No
 NM Office of the State Engineer - iWATERS database search; 	USGS: Data obtained from nearby wells	N/A
C	the busined waste	Yes No
Ground water is between 50 and 100 feet below the bottom of t		N/A
- NM Office of the State Engineer - iWATERS database search;	USGS; Data obtained from hearby weter	
Ground water is more than 100 feet below the bottom of the but	ried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search;	USGS; Data obtained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of (measured from the ordinary high-water mark).	any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the propo	sed site	
Within 300 feet from a permanent residence, school, hospital, instituti - Visual inspection (certification) of the proposed site; Aerial phot		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or s purposes, or within 1000 horizontal fee of any other fresh water well or NM Office of the State Engineer - iWATERS database; Visual in		
Within incorporated municipal boundaries or within a defined municipursuant to NMSA 1978, Section 3-27-3, as amended.	ipal fresh water well field covered under a municipal ordinance adopted	Yes No
- Written confirmation or verification from the municipality; Writ	then approval obtained from the municipality	Dv. DNo
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic	man: Visual inspection (certification) of the proposed site	Lies Livo
Within the area overlying a subsurface mine.	map, visual inspection (continuation) of the proposed and	□Ves □No
Written confiramtion or verification or map from the NM EMNF	RD-Mining and Mineral Division	
Within an unstable area.		Yes No
	of Geology & Mineral Resources; USGS; NM Geological Society;	
Topographic map		
Within a 100-year floodplain FEMA map		Yes No
18		
by a check mark in the box, that the documents are attached.	ructions: Each of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon		
Proof of Surface Owner Notice - based upon the appropr	riate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable	e) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place	burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate re	equirements 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 appropri	iate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids,	drilling fluids and drill cuttings or in case on-site closure standards can	nnot be achieved)
Soil Cover Design - based upon the appropriate requirem		
Re-vegetation Plan - based upon the appropriate requirer		
Cita Paulamation Plan, based upon the appropriate requi	irements of Subsection G of 19.15.17.13 NMAC	

19		
Operator Application Certification:		
hereby certify that the information submitted with this application is true, accur-		
Name (Print): Crystal Tafoya	Title:	Regulatory Technician
Signature:	Date:	12/22/2008
e-mail address: crystal lafoya@conocophillips.gom	Telephone:	505-326-9837
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) OCD Permi	OCD Conditions (see attachment) Approval Date: 12/12/14
inc.	CODICIA	a rounder.
21 Closure Report (required within 60 days of closure completion): Subsc	notion K of 19 15 17 13 NMAC	
instructions: Operators are required to obtain an approved closure plan prior to report is required to be submitted to the division within 60 days of the completio approved closure plan has been obtained and the closure activities have been considered.	o implementing any closur on of the closure activities. ompleted.	
	Closure	Completion Date:
Closure Method: Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)
23		
Closure Report Regarding Waste Removal Closure For Closed-loop Systems	That Utilize Above Gro	ound Steel Tanks or Haul-off Bins Only:
nstructions: Please identify the facility or facilities for where the liquids, drilli	ing fluids and drill cuttin	gs were disposed. Use attachment if more than two facilities
ere utilized.	Discount Facility I	Domesia Miranda and
Disposal Facility Name:	Disposal Facility I	
Disposal Facility Name:	Disposal Facility I	
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliane to the items below)	No	be used for ruture service and opeartions?
	-	
Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation)	erations:	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the follo	wing items must be attac	hed to the closure report. Please indicate, by a check mark in
the box, that the documents are attached. Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Tank Park Park Park Park Park Park Park Par		
Confirmation Sampling Analytical Results (if applicable)		
Waste Material Sampling Analytical Results (if applicable)		
Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)	Y	NAB [] 1000 [] 1000
On-site Closure Location: Latitude:	Longitude:	NAD 1927 1983
5		
Operator Closure Certification: hereby certify that the information and attachments submitted with this closure		
ne closure complies with all applicable closure requirements and conditions spec fame (Print):	cified in the approved clos. Title:	sure plan.
ignature:	Date:	
-mail address:	Telephone:	
and the total control of the t	i e ic puone.	

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range	e: 11W Sections:	
NAD27 X: Y:	Zone:	Search Radius:
County: Basin:	Numb	per: Suffix:
Owner Name: (First)	(Last) O	Non-Domestic O Domestic O All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear	Form IWATERS Menu	Help
Clear	POINT WATERS MENU	Heih

WATER COLUMN REPORT 08/21/2008

	(quarter													
	quarter			_							Depth	Depth	Water	(in
POD Number	Tws		Sec	Q	P	Q	Zone	X		Y	Well	Water	Column	
RG 50669	30N	11W									360	310	50	
SJ 02765	30N	11W			3						54	20	34	
SJ 00975	30N	11W			3						60	20	40	
SJ 01217	30N	11W	02	1	3						60	30	30	
SJ 02837	30N	11W		3	4	1					150			
SJ 01437	30N	11W	03	1							40	28	12	
SJ 03121	30N	11W	03	1	2	4					36	12	24	
SJ 02049	30N	11W	03	1	3						26	8	18	
SJ 01339	30N	11W	03	1	3	1					40	15	25	
SJ 02814	30N	11W	03	1	3	2					31	8	23	
SJ 00350	30N	11W	03	1	3	2					46	12	34	
SJ 01441	30N	11W	03	1	3	2					48	20	28	
SJ 02835	30N	11W	03	1	3	2					26	8	18	
SJ 01387	30N	11W	03	1	4						40	18	22	
SJ 03698 POD1	30N	11W	03	1	4	1					40	5	35	
SJ 02785	30N	11W	03	1	4	2					31	5	26	
SJ 01313	30N	11W	03	2							70	58	12	
SJ 01805	30N	11W	03	2							35	20	15	
SJ 01807	30N	11W		2	1						50	30	20	
SJ 01202	30N	11W		2		2					35	8	27	
SJ 02781	30N	11W	03	2	1	2					48	23	25	
SJ 03758 POD1	30N	11W	03	2	1	2		268158	212	7473	49	21	28	
SJ 03765 POD1	30N	11W	03	2	_	2		268163	212	7605	43	20	23	
SJ 03756 POD1	30N	11W	03	2	1	2		268179	212	7870	41	20	21	
SJ 02786	30N	11W	03	2	3	1					51	24	27	
SJ 01901	30N	11W	03	2	3	2					60	26	34	
SJ 00698	3 0N	11W	03	2	3	3					44	14	30	
SJ 01261	30N	11W	03	2	3	4						20		
SJ 02930	30N	11W	03	2	4	4					81	64	17	
SJ 02798	30N	11W	03	2	4	4					80	61	19	
SJ 00402	30N	11W	03	3							32	18	14	
SJ 01734	30N	11W	03		2						33	5	28	

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SJ 00762	30N	11W 03	3 2				47	22	25
SJ 01440	30N	11W 03	3 2 3				41	21	20
SJ 01020	30N	11W 03	3 3				27	5	22
SJ 03242	30N	11W 03	3 3 1				23	9	14
SJ 03732 POD1	30N	11W 03	3 3 1				38	9	29
SJ 03239	30N	11W 03	3 3 3				33	12	21
SJ 01238	30N	11W 03	4 1				95	38	57
SJ 02245	30N	11W 03	4 1 3				66	30	36
SJ 01043	30N	11W 03	4 1 4				50		
SJ 01249	30N	11W 03	4 2				52	22	30
SJ 02563	30N	11W 03	4 2 1				96	60	36
SJ 02824	30N	11W 03	4 2 1				70	50	20
SJ 03153	30N	11W 03	4 2 1				80	60	20
SJ 03454	30N	11W 03	4 2 4				100	10	0.0
SJ 03291	30N	11W 03	4 3 2				38	18	20
SJ 00366	30N	11W 03	4 4 4				33	18	15
SJ 01364	30N	11W 04	2				115	86	29
SJ 03076	30N	11W 04 11W 04	2 2 3 2				44	10	34
SJ 02903 SJ 03039	30N 30N	11W 04	4 1 2				49 53	31 40	18 13
SJ 01450	30N	11W 04	4 3				45	20	25
SJ 02941	30N	11W 04	4 3 2				58	37	21
SJ 01367	30N	11W 04	4 4 1				48	20	28
SJ 03407	30N	11W 04	4 4 4	W	453700	2124100	30	5	25
SJ 03267	30N	11W 05	2 1 3	**	433700	2124100	83	60	23
SJ 03245	30N	11W 06	4 4 4				80	65	15
SJ 02194	30N	11W 07					59	22	37
SJ 02140	30N	11W 07	1 1 1				70	60	10
SJ 00689	30N	11W 07	1 4 3				78	65	13
SJ 00690	30N	11W 07	1 4 3				60		
SJ 00882	30N	11W 07	1 4 3				60	50	10
SJ 00889	30N	11W 07	1 4 3				55		
SJ 00806	30N	11W 07	1 4 3				38	20	18
SJ 00739	30N	11W 07	1 4 3				70	58	12
SJ 00389	30N	11W 07	1 4 3				53		
SJ 00688	30N	11W 07	1 4 3				70	58	12
SJ 00358	30N	11W 07	1 4 3				61	38	23
SJ 00397	30N	11W 07	1 4 3				56	35	21
SJ 00415	30N	11W 07	1 4 3				53	40	13
SJ 00387	30N	11W 07	1 4 3						
SJ 00748	30N	11W 07	1 4 3				60	41	19
SJ 03271	30N	11W 07	2 3 2				4.0	0.5	0.0
SJ 01475	30N	11W 07	2 3 3				49	27	22
SJ 03465	30N	11W 07	2 3 4				80	10	1.2
SJ 00259 SJ 01492	30N 30N	11W 07 11W 07	2 4				25	12	13
SJ 03794 POD1	30N	11W 07	3 1 3		266272	2119520	60 44	22 27	38 17
SJ 01172	30N	11W 07	3 2		200272	2119320	50	30	20
SJ 01310	30N	11W 07	3 3				80	50	30
SJ 01484	30N	11W 07	3 3				61	10	51
SJ 03630	30N	11W 07	3 3 3				68	24	44
SJ 01425	30N	11W 07	3 4				55	25	30
SJ 01468	30N	11W 07	3 4				60	25	35
SJ 02006	30N	11W 07	3 4 2				50	24	26
SJ 03484	30N	11W 07	3 4 3				75	27	20
SJ 02005	30N	11W 07	3 4 4				55	20	35
SJ 02715	30N	11W 07	3 4 4				68	20	48
SJ 00135	30N	11W 07	4 1				180	23	157
SJ 00769	30N	11W 07	4 1				50	14	36
							0.0		30

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SJ 01406	30N	11W 07	4 1		45	12	33
SJ 02936	30N	11W 07	4 1	1	38	30	8
SJ 00679	30N	11W 07	4 1	. 3	48	22	26
SJ 00620	30N	11W 07	4 1	. 3	52	35	17
SJ 00329	30N	11W 07	4 1	. 3	63	20	43
SJ 00162	30N	11W 07	4 1		58	23	35
SJ 02906	30N	11W 07	4 1	4	45	24	21
SJ 00893	30N	11W 07	4 2		80	40	40
SJ 01667	30N	11W 07	4 3		41	21	20
SJ 01404	30N	11W 07	4 3		40	15	25
SJ 00919	30N	11W 07	4 3		35	12	23
SJ 00604	30N	11W 07	4 3		38	22	16
SJ 00601	30N	11W 07	4 3		40	22	18
SJ 00918	30N	11W 07	4 3		35	14	21
SJ 00920	30N	11W 07	4 3		35	12	23
SJ 01567	30N	11W 07	4 4		35	14	21
SJ 00183	30N	11W 08	1 1		360	300	60
SJ 03154	30N	11W 08 11W 08		4	40		
SJ 03431	30N	11W 08	1 4 2 2		50 52	2.4	10
SJ 00332 SJ 01451	30N	11W 08	2 2		64	34 34	18
SJ 01968	30N	11W 08	2 2		40	25	30 15
SJ 01999	30N	11W 08	2 2		61	45	16
SJ 01814	30N	11W 08	2 2		52	10	42
SJ 03398	30N	11W 08	2 2		80	20	60
SJ 03210	30N	11W 08	2 2		60	30	30
SJ 03098	30N	11W 08	2 2		63	23	40
SJ 03381	30N	11W 08	2 2		50	23	10
SJ 03240	30N	11W 08	2 2		50		
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SJ 03639	30N	11W 08	2 2		60	24	36
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SJ 03653	30N	11W 08	2 2	4	62	26	36
SJ 03646	30N	11W 08	2 2	4	61	24	37
SJ 00228	30N	11W 08	2 2	4	67	38	29
SJ 03202	30N	11W 08	2 4		45		
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SJ 02293	30N	11W 08		2	50	35	15
SJ 00249	30N	11W 08		2	46	30	16
SJ 01368 SJ 03089	30N	11W 08 11W 08	3 2	4	59	39	20
SJ 03480	30N	11W 08		4	48 50	36	12
SJ 03199	30N	11W 08		1	40	20	20
SJ 02413	30N	11W 08		1	40	20 31	20
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SJ 03367	30N	11W 08		4	29	5	24
SJ 01570	30N	11W 08	4 1		59	37	22
SJ 00925	30N	11W 08		2	32	20	12
SJ 03642	30N	11W 08		2	58	32	26
SJ 01520	30N	11W 08		2	58	18	40
SJ 03313	30N	11W 08		4	58	20	38
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SJ 02261	30N	11W 08		2			
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SJ 02336	30N	11W 09	1 3	2	46	11	35
SJ 03482	30N	11W 09	1 3	2	50		
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SJ 00347	30N	11W 09	4		36	19	17
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SJ 03263	30N	11W 09	4 2	2	63	35	28
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SJ 03444	30N	11W 10	1 3		60	2.0	60
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SJ 03218 SJ 01720	30N	11W 10 11W 13	3 3	3	50	30	20
	30N	11W 13	1 1	2	225	90	135
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DU U1474	_ 20M	TIM TO	т 3	3	94	52	40

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SJ 01082	30N	11W 16	2 2	1			80	34	46
SJ 01722	30N	11W 17	1				20	8	12
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SJ 01342	30N	11W 17	2 1	1			26	5	21
SJ 00166	30N	11W 17	2 3				48	11	37
SJ 01057	30N	11W 17	2 3				63	28	35
SJ 01060	30N	11W 17	2 3				58	23	35
SJ 03241	30N	11W 17	2 3	3			75	20	55
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SJ 03219	30N	11W 17	2 4	2			68	38	30
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SJ 03276	30N	11W 17	3 1	4			60	20	40
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SJ 00234	30N	11W 17	4 1				54	23	31
SJ 01847	30N	11W 17	4 1				30	6	24
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SJ 00650	30N	11W 17		3			49	18	31
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SJ 00136 SJ 03718 POD1	30N	11W 17 11W 17	4 2	2			69	35	34
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SJ 03152	30N	11W 18	1 1				52	12 22	34
SJ 02805	30N	11W 18		1			60	22	30
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SJ 02996	30N	11W 18	1 2				50	25	25
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SJ 01733	30N	11W 18	1 3				29	9	20
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SJ 03344	30N	11W 18	1 4				100	8	92
							200	0	14

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SJ	02045	30N	11W 18	4						480	200	280
SJ	03322	30N	11W 18	4	4	1				40	10	30
SJ	03320	30N	11W 18	4	4	3				80		
SJ	03321	30N	11W 18	4	4	3				80		
-	02193	30N	11W 19								105	
	03403	30N	11W 19	1	2	2				400		
	00638	30N	11W 19	2	1					130	70	60
SJ	01073	30N	11W 19	2	1					100	38	62
-	03615	30N	11W 19	2	1					105	35	70
SJ	03434	30N	11W 19	2		4				140		
	03088	30N	11W 19	2	1	4				120	80	40
	01636	30N	11W 19	2	2					70	25	45
	02862	30N	11W 19	2	2	3				20		
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	01621	30N	11W 19	3	2	_				40	38	2
	02692	30N	11W 19	3		2				52	12	40
	02968	30N	11W 19	3		2				75	5	70
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	01123	30N	11W 19	4	1	_				40	15	25
	03437	30N	11W 19	4	1					30	- 4	
	03315	30N	11W 19	4		2				60	54	6
	00284 CLW222415	30N	11W 19	4	4	4				200	35	165
	03224	30N	11W 30	1	2					80	30	50
	03077	30N	11W 30	2		1				75	70	5
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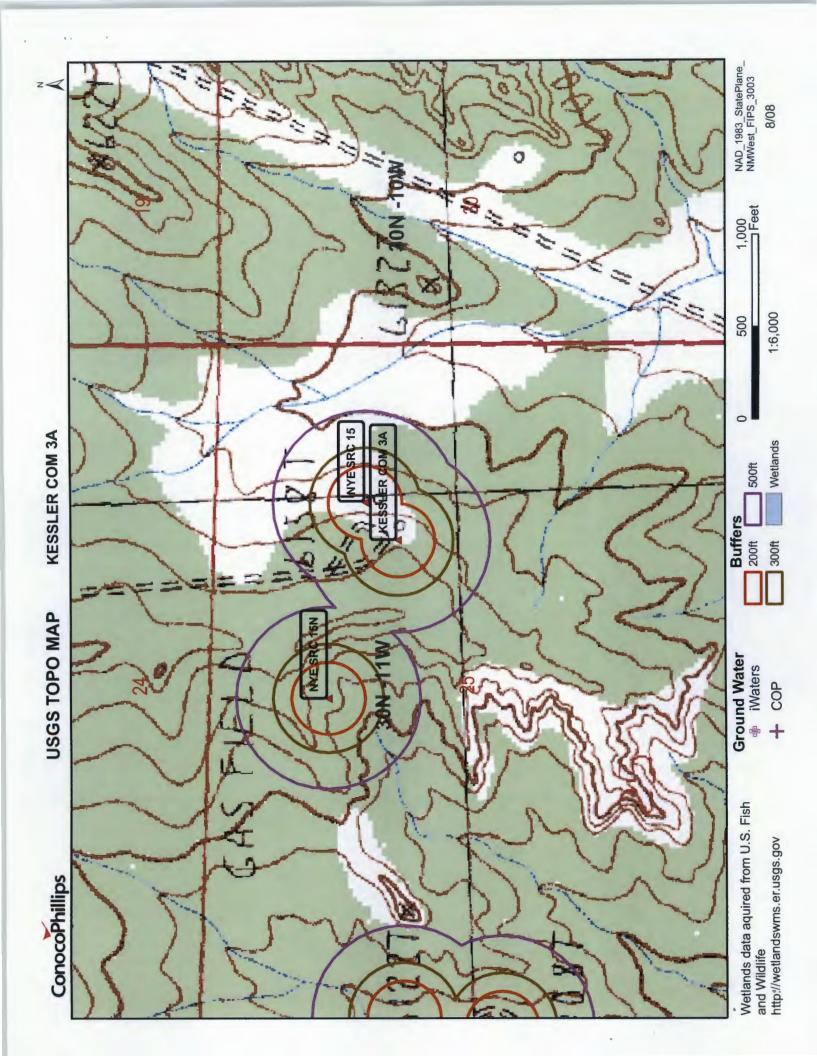
New Mexico Office of the State Engineer POD Reports and Downloads

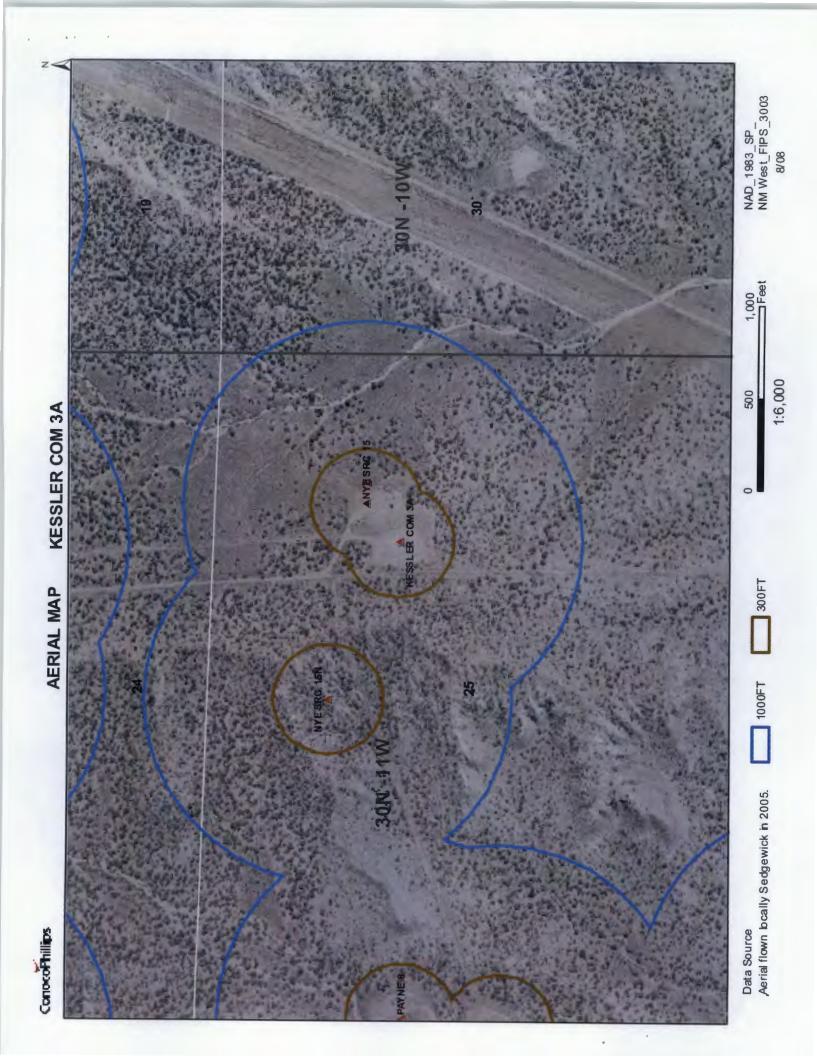
Township: 30N Ran	ge: 10W Sections:	
NAD27 X: Y	Zone: Sear	rch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-	Domestic © Domestic © Al
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clea	r Form iWATERS Menu Help	

WATER COLUMN REPORT 08/21/2008

Company Comp		(quarter	s are	1 =	WW	2:	=NE	3=SW 4=SE)						
SJ 00050 30N 10W 02 1 3 2 520 306 214 SJ 03460 30N 10W 02 1 3 2 520 500 20 SJ 03230 30N 10W 03 1 2 1 120 70 50 SJ 03113 30N 10W 05 4 1 4 42 30 12 SJ 00589 30N 10W 08 1 2 1 175 150 25 SJ 00774 30N 10W 08 1 2 1 195 160 35 SJ 02316 30N 10W 08 1 3 4 190 98 112 SJ 02102 30N 10W 08 2 2 2 120 60 60 SJ 01527 30N 10W 08 2 2 2 120 60 60 SJ 02808 30N 10W 08 2 2 2 100 70 30 SJ 02998 30N 10W 08 2 4 20 14 14 SJ 02772 30N 10W 08 4 2 2 200		(quarter	s are	e bi	gge	est	t to	smallest)		Depth	Depth	Water	(in	feet)
SJ 03460 30N 10W 02 1 3 2 520 500 20 SJ 03230 30N 10W 03 1 2 1 120 70 50 SJ 03113 30N 10W 05 4 1 4 42 30 12 SJ 03133 30N 10W 08 1 1 1 175 150 25 SJ 00774 30N 10W 08 1 2 1 195 160 35 SJ 02316 30N 10W 08 1 3 4 210 98 112 SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 2 120 60 60 60 SJ 01193 30N 10W 08 2 2 4 100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 01102 30N 10W 08 3 3 1 260 117 143 SJ 02998 30N 10W 08 4 2 2 200 159 41 SJ 02772 30N 10W 08 4 4 2 2 200 160 40 SJ 03442 30N 10W 20 1 4 1 200 120 SJ 02782 30N 10W 20 1 4 4 250 120 SJ 02782 30N 10W 20 2 4 1 200 120 SJ 00197 30N 10W 20 2 4 2 200 160 40 SJ 00197 30N 10W 23 2 4 2 200 12 2 SJ 00197 30N 10W 23 2 4 2 200 24 2 305 2	POD Number	Tws	Rng	Sec	P	P	P	Zone	X	Y	Well	Water	Column		
SJ 03230 30N 10W 03	SJ 00050	30N	10W	02	1	3	2				520	306	214		
SJ 03113 30N 10W 05 4 1 4 42 30 12 SJ 00589 30N 10W 08 1 1 175 150 25 SJ 00774 30N 10W 08 1 2 1 195 160 35 SJ 02316 30N 10W 08 1 3 210 98 112 SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 120 60 60 SJ 01193 30N 10W 08 2 2 100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 01102 30N 10W 8 2 2 200 159 41 SJ 02998 30N 10W 8 4<	SJ 03460	30N	10W	02	1	3	2				520	500	20		
SJ 00589 30N 10W 08 1 1 1 1 1 1 1 175 150 25 SJ 00774 30N 10W 08 1 2 1 1 2 1 195 160 35 SJ 02316 30N 10W 08 1 3 4 1 2 1 195 160 35 SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 2 120 60 60 60 SJ 01193 30N 10W 08 2 2 3 4 165 105 60 SJ 01102 30N 10W 08 2 4 4 200 159 41 SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 01362 30N 10W 08 4 4 4 160 120 40 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 250 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 30N 10W 23 2 4 2 SJ 00051 30N 10W 23 2 4 2 30N 10W 23 2 4 2 SJ 00197 30N 10W 23 2 4 2 30N 10W 24 2 SJ 00196 30N 10W 34 1 2 4 30N 10W 34 1 2 4	SJ 03230	30N	10W	03	1	2	1				120	70	50		
SJ 00774 30N 10W 08 1 2 1 195 160 35 SJ 02316 30N 10W 08 1 3 210 98 112 SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 120 60 60 SJ 01193 30N 10W 08 2 2 100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02998 30N 10W 08 4 2 2 200 160 40 SJ 02772 30N 10W 08 4 4 22 200 160 40 SJ 01362 30N 10W 20 1 4 1 200 159 48 SJ 02782 30N 10W 20 1 4 4 200 159 48 SJ 02797 30N 10W 20 2 4 1 1 200 SJ 00024 30N 10W 23 2 4 2 30S 30S 30S 30S 30S SJ 00107 30N 10W 23 2 4 2 30S	SJ 03113	30N	10W	05	4	1	4				42	30	12		
SJ 02316 30N 10W 08 1 3 4 210 98 112 SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 1120 60 60 60 SJ 01193 30N 10W 08 2 2 1100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 02998 30N 10W 08 2 4 20 159 41 SJ 02998 30N 10W 08 4 2 2 20 160 117 143 SJ 02772 30N 10W 08 4 4 2 2 20 160 160 40 SJ 01362 30N 10W 08 4 4 2 10 160 120 40 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 200 SJ 02797 30N 10W 20 2 4 1 4 4 200 SJ 00024 30N 10W 23 2 4 2 305 SJ 00197 30N 10W 23 4 2 2 305 SJ 00197 30N 10W 23 4 2 2 305 SJ 00116 30N 10W 24 2 2 300 SJ 01165 30N 10W 33 2 1 105 45 60 SJ 01105 30N 10W 34 1 2 4	SJ 00589	30N	10W	80	1	1	1				175	150	25		
SJ 02102 30N 10W 08 1 3 4 190 90 100 SJ 01527 30N 10W 08 2 2 120 60 60 SJ 01193 30N 10W 08 2 2 100 70 30 SJ 02808 30N 10W 08 2 3 4 200 159 41 SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 030523 30N 10W 08 4 4 4 160 120 40 SJ 03442 30N 10W 20 1 3 3 238 190 48 SJ 02782 30N 10W 20 1 4 1 200 SJ 02797 30N 10W 20 2 4 1 70 SJ 00244 30N 10W 23 2 4 2 305 SJ 00051 30N 10W 23 4 2 30N 10W 23 4 2 SJ 00116 30N 10W 33 2 1 292 SJ 00116 30N 10W 34 1 2 4 105 45 60 SJ 0116 30N 10W 34 1 2 4 105 45 60	SJ 00774	30N	10W	80	1	2	1				195	160	35		
SJ 01527 30N 10W 08 2 2 2 120 60 60 60 SJ 01193 30N 10W 08 2 2 2 100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 01102 30N 10W 08 2 4 200 159 41 SJ 02998 30N 10W 08 4 2 2 200 160 40 SJ 02772 30N 10W 08 4 4 2 200 160 40 SJ 01362 30N 10W 20 1 3 3 160 120 40 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 1 250 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 305 SJ 00051 30N 10W 23 4 2 292 SJ 00116 30N 10W 24 2 292 SJ 01116 30N 10W 34 1 2 4 105 45 60 SJ 01059 30N 10W 34 1 2 4	SJ 02316	30N	10W	80	1	3					210	98	112		
SJ 01193 30N 10W 08 2 2 100 70 30 SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 01102 30N 10W 08 2 4 200 159 41 SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 00523 30N 10W 08 4 4 160 120 40 SJ 01362 30N 10W 20 1 4 1 200 48 SJ 03442 30N 10W 20 1 4 4 250 2 SJ 02782 30N 10W 20 1 4 4 250 2 2 30 5 305 305 305 305 30 30 30N 10W 23 2 4 2 292	SJ 02102	30N	10W	80	1	3	4				190	90	100		
SJ 02808 30N 10W 08 2 3 4 165 105 60 SJ 01102 30N 10W 08 2 4 200 159 41 SJ 02998 30N 10W 08 4 2 2 200 160 40 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 00523 30N 10W 20 1 3 3 238 190 48 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 250 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 30S SJ 00197 30N 10W 23 4 2 30S SJ 00100 30N 10W 23 4 2 292 SJ 01116 30N 10W 33 2 1 105 45 60 SJ 01059 30N 10W 34 1 2 4 115 75 40	SJ 01527	30N	10W	80	2	2					120	60	60		
SJ 01102 30N 10W 08 2 4 200 159 41 SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 00523 30N 10W 08 4 4 160 120 40 SJ 01362 30N 10W 20 1 3 3 238 190 48 SJ 02782 30N 10W 20 1 4 4 200 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 305 SJ 00197 30N 10W 23 4 2 975 500 475 SJ 00116 30N 10W 33 2 1 105 45 60 SJ 01116 30N 10W 34 1 2 4 105 45 60 SJ 01059 30N 10W 34 1 2 4 115 75 40	SJ 01193	30N	10W	80	2	2					100	70	30		
SJ 02998 30N 10W 08 3 3 1 260 117 143 SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 00523 30N 10W 08 4 4 1 160 120 40 SJ 01362 30N 10W 20 1 3 3 3 238 190 48 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 2 250 SJ 00024 30N 10W 23 2 4 2 305 SJ 00051 30N 10W 23 4 2 305 SJ 00197 30N 10W 23 4 2 2 20 SJ 00106 30N 10W 24 2 2 20 SJ 01116 30N 10W 33 2 1 30 SJ 01059 30N 10W 34 1 2 4	SJ 02808	30N	10W	80	2	3	4				165	105	60		
SJ 02772 30N 10W 08 4 2 2 200 160 40 SJ 00523 30N 10W 08 4 4 160 120 40 SJ 01362 30N 10W 20 1 3 3 238 190 48 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 250 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 305 SJ 00051 30N 10W 23 2 4 2 305 SJ 00197 30N 10W 23 4 2 975 500 475 SJ 00100 30N 10W 24 2 292 SJ 01116 30N 10W 33 2 1 105 45 60 SJ 01059 30N 10W 34 1 2 4 115 75 40	SJ 01102	30N	10W	80	2	4					200	159	41		
SJ 00523 30N 10W 08 4 4 160 120 40 SJ 01362 30N 10W 20 1 3 3 238 190 48 SJ 03442 30N 10W 20 1 4 1 200 SJ 02782 30N 10W 20 1 4 4 250 SJ 02797 30N 10W 20 2 4 1 70 SJ 00024 30N 10W 23 2 4 2 305 SJ 00197 30N 10W 23 4 2 305 SJ 00197 30N 10W 23 4 2 975 500 475 SJ 0010 30N 10W 24 2 292 SJ 01116 30N 10W 33 2 1 105 45 60 SJ 01059 30N 10W 34 1 2 4 115 75 40	SJ 02998	30N	10W	80	3	3	1				260	117	143		
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	SJ 01116	30N			2						105	45	60		
SJ 01182 30N 10W 34 1 3 3 235 125 110		30N			1	2	4				115	75	40		
	SJ 01182	30N	10W	34	1	3	3				235	125	110		

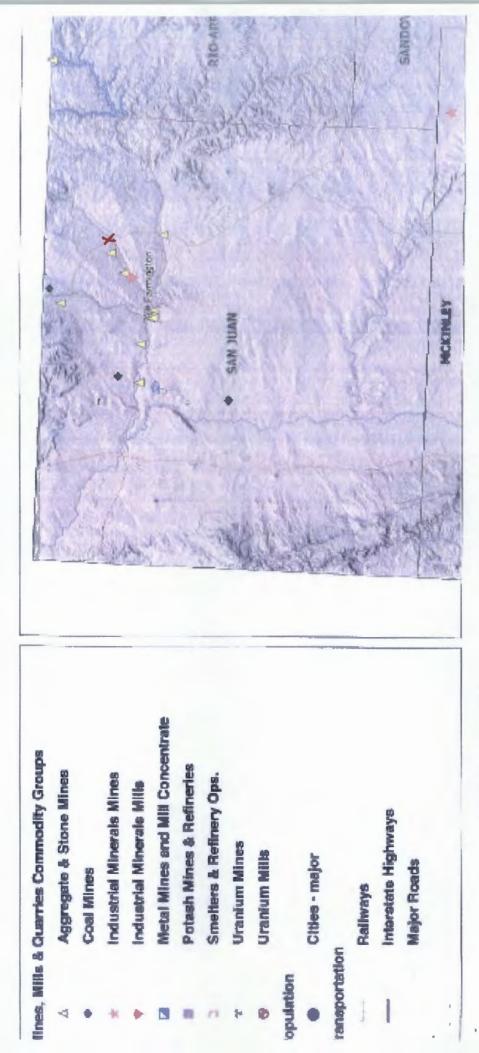
Record Count: 26





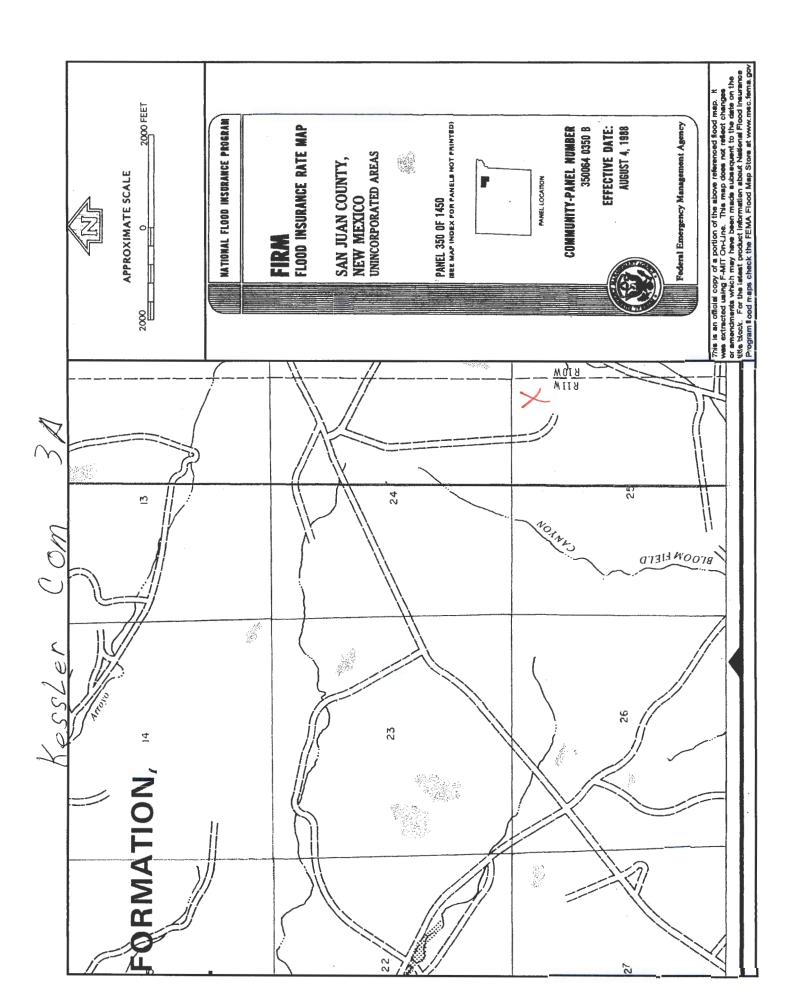
Mines, Mills and Quarries Web Map

KESSLER COM 3A Unit Letter: A, Section: 25, Town: 030N, Range: 011W



SCALE 1:1,180,363





KESSLER COM 3A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'KESSLER COM 3A', which is located at 36.78726 degrees North latitude and 107.93684 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 25 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 4.0 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 15.4 miles to the west (National Atlas). The nearest highway is State Highway 575, located 1.7 miles to the northeast. The location is on BLM land and is 3,326 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1867 meters or 6123 feet above sea level and receives 12.5 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 138 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 704 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,912 feet to the southwest. The nearest water body is 5,906 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 18,775 feet to the southeast. 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 7,422 feet to the northeast. The nearest wetland is a 0.3 acre Other located 18,261 feet to the northeast. The slope at this location is 3 degrees to the east 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 'Farb-Persayo-Rock outcrop complex, moderately steep' and is excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 12.4 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

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

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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

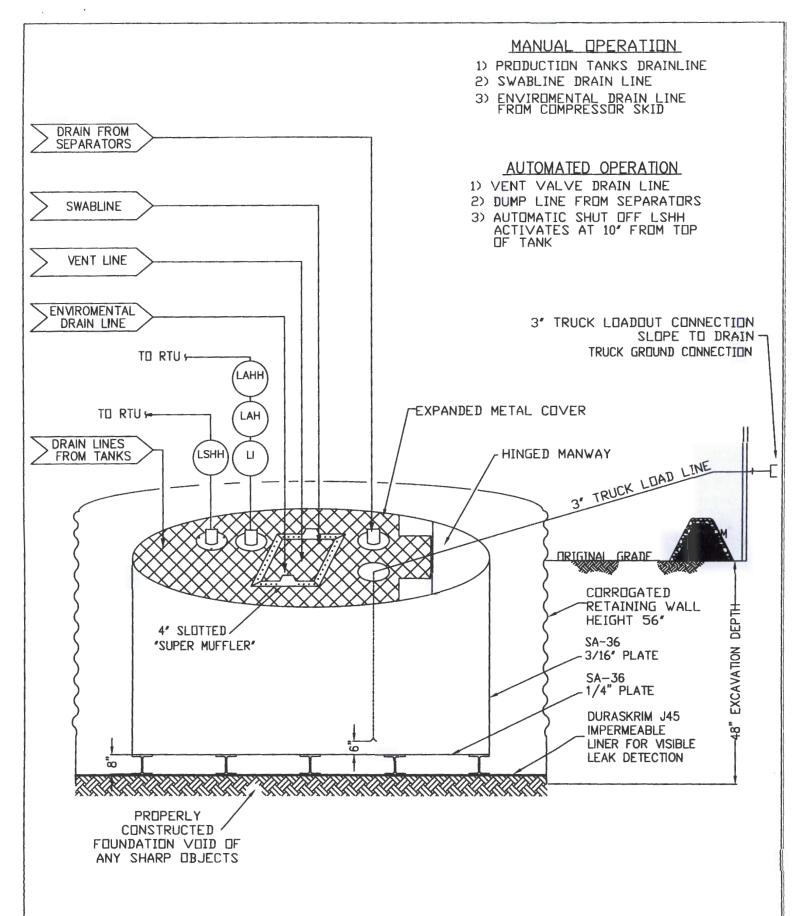
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

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

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



ConocoPhillips

San Juan Business Unit

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

DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J3	0BB	J36	ВВ	J45BB		
		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		**Extr	usion laminated	al scrim reinforcement				
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-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.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- 1. 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 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 300.1 or other 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.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include 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 belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - · Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice