District I 1625 N. French Dr., Hobbs. NM 88240 Di 13 Di Di Di Di Di Di Di Di Di Di	State of New Mexico Energy Minerals and Natural R ment Lion Divis Francis Pit Closed-Loon System Belo	Form C-144 esources July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. Dr. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Propos Type of action:	X Permit of a pit, closed-loop system, bel Closure of a pit, closed-loop system, bel	r Closure Plan Application ow-grade tank, or proposed alternative method clow-grade tank, or proposed alternative method
Instructions: Please submit one of Please be advised that approval re- environment. Nor does approval re-	Closure plan only submitted for an exist below-grade tank, or proposed alternation pplication (Form C-144) per individual pit of this request does not relieve the operator of liability shou ieve the operator of its responsibility to comply with any of	ting permitted or non-permitted pit, closed-loop system, ve method declosed-loop system, below-grade tank or alternative request deperations result in pollution of surface water, ground water or the her applicable governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources O Address: PO Box 4289, Farmingto Facility or well name: LAWSON F	il & Gas Company, LP on, NM 87499 EDERAL 1A	OGRID#: <u>14538</u>
API Number:	3004522842 OCD Pe on: 31 Township: 32N Ra e: 36.94643°N Longi Image: State X Private Tribal True	mit Number: nge: <u>11W</u> County: <u>San Juan</u> tude: <u>-108.02263°W</u> NAD: <u>X</u> 1927 1983 st or Indian Allotment
2 Pit: Subsection F or G of 19.15.1 Temporary: Drilling Word Permanent Emergency O Lined Unlined L String-Reinforced Liner Seams: Welded F	7.11 NMAC kover Cavitation P&A iner type: Thickness mil L actory Other Volum	LDPE HDPE PVC Other
3 Closed-loop System: Subsec Type of Operation: P&A P&A Drying Pad Above Group Above Group Lined Unlined Lined Liner Seams: Welded F	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling notice of intent) and Steel Tanks Haul-off Bins Other er type: Thicknessmil Li actory Other	(Applies to activities which require prior approval of a permit or
4 X Below-grade tank: Subsection Volume: 120 I Tank Construction material:	I of 19.15.17.11 NMAC bl Type of fluid: <u>Produced Water</u> <u>Metal</u> etection X Visible sidewalls, liner, 6-inch Visible sidewalls only Other <u>mil</u> HDPE PVC X	lift and automatic overflow shut-off Other <u>Unspecified</u>
5 Alternative Method: Submittal of an exception request is re Form C-144	quired. Exceptions must be submitted to the San Oil Conservation E	a Fe Environmental Bureau office for consideration of approval. Vivision Page 1 of 5

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permaient 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, a Four foot height, four strands of barbed wire evenly spaced between one and four-feet X Alternate. Please specify <u>4 hog wire fencing topped with two strands barbed wire</u> .	institution or c	luírch)
7 Netting: Subsection E of 19,15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting 'Other Monthly inspections (If netting or screening is not physically feasible)		
8 Signs: Subsection-C of 19.15.17.11 NMAC 12" X 24". 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC		
 <u>Administrative Approvals and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> 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. 	nsideration of	approval.
10		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	X No.
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		
(Applied to permanent pits)	Yes XNA	No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 herizonal fact of a private demostic fresh water well as apping that has first here to be the state of the state o		Ġ.
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality. Written approval obtained from the municipality is a section of the municipality with a section of the municipality.	Yes	XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources: USGS: NM Geological	Yes	XNo
Society; Topographic map		
Within a 100-year floodplain - FEMA map	Yes.	XNo

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checkli Instructions: Each of the following items must be attached to the application. Place to the two devices the	st: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Su	the box, that the documents are attached.
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) or Su	1(2) of Subsection B of 19, 15, 17, 9 NMAC.
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 NMA4	
X Closure Plan (Please complete Boxes 14 through 18 if applicable), based upon the appropriate re-	entropy of Palace Alex Conf
19.15.17.9 NMAC and 19.15.17.13 NMAC	quitements of subsection C of
Previously Approved Design (attach copy of design) APt	_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 t	he box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Parag	graph (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 red NMAC and 19.15.17.13 NMAC	quirements of Subsection C of 19. [5.17.9
Previously Approved Design (attach copy of design) API	
Previously Approved Operating and Maintenance Plan API	
11	
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 is	n the box, that the documents are attached
Hydrogeologic Report - based upon the requirements of Paragraph (1) 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 NM/	AC
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	
Quality Control/Quality Assurance Construction and Installation Plan	9.15.17.11 NMAC
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	
Closure Plan based upon the ensurements of Culture for first to the test of te	
Cusule Fian - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and	19.15.17.13 NMAC
14 Pronosed Closure: 10.15.17.13.NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation DP&A Permanent Pit X Below	v-grade Tank Closed-loop System
	State tankClosed-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 Er	nvironmental Bureau for consideration)
15	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the fo	llowing items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.	
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
Dispusal Facility Maine and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - bacad upon the appropriate continuous of Colored	on H of 10.15.17.12 NMAAG
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 10.15.17.1.3.3.4.4.6	NIT OF 19.12.17.13 INMAC
Site Reclamation Plan, based upon the appropriate requirements of Subsection 1 of 19,15,17,13 NMAC	440
A Site requirements of Subsection G of 19.15.17.13 NN	лас

16 Wasta Ramonal Chemin For Claud Ion Statement The Matter		
Instructions: Please identify the facility or facilities for the disposal of liquids, drilli	teel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC ing fluids and drill cuttings. Use attachment if more than tw) o favilities
are required. Disposal Facility Name	Discusso Providence Dana da a	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activit	Disposal Factury Perint #:	
Yes (If yes, please provide the information No	the soccar of or in areas that war not be used for future	service and operations?
Required for impacted areas which will not be used for future service and operations	s:	
Soll Backfull and Cover Design Specification - based upon the appropriate requirements of Sub-	riate requirements of Subsection H of 19.15.17.13 NM	AC
Site Reclamation Plan - based upon the appropriate requirements of St	ubsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NM/	AC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan, certain sume criteria may require administrative approval from the appropriate district office	Recommendations of acceptable source material are provided by	dow. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalency are requir	e in may be considered an exception which must be submitted to t (ed. Please refer to 19.15.17.10 NMAC for guidance.	he 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 ob	tained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried wast	ie	
- NM Office of the State Engineer - iWATERS database search; USGS; Data obta	ained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste		
 NM Office of the State Engineer - iWATERS database search; USGS; Data obta 	ained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signifi (measured from the ordinary high-water mark).	icant watercourse or lakebed, sinkhole, or playa 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 	e	
Willing GAN Francisco I Construction of the state of the		Yes No
purposes, or within 1000 horizontal fee of any other fresh water well or spring that less th	an five households use for domestic or stock watering tence at the time of the initial application.	
NM Office of the State Engineer - iWATERS database: Visual inspection (certific	cation) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended.	vell field covered under a municipal ordinance adopted	Yes No
Written confirmation or verification from the municipality; Written approval obt	ained from the municipality	
Within 500 feet of a wetland		Yes No
Within the area overlying a subsurface mine	section (certification) of the proposed site	
 Written confirantion or verification or map from the NM EMNRD-Mining and M 	Aineral Division	Yes No
Within an unstable area.		
Engineering measures incorporated into the design; NM Bureau of Geology & Mi	ineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain.		
- FEMA map		
18		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the bay, that the documents are attached	of the following items must bee attached to the closur	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 10.15.17.10 NIMAC	
Proof of Surface Owner Notice - based upon the appropriate requiremen	its of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	e appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dryin	ng pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 1	9.15.17.13 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	s of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids ar	nd drill cuttings or in case on-site closure standards car	not be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsecti	ion H of 19.15.17.13 NMAC	
C-vegetation rian - based upon the appropriate requirements of Subsect	tion 1 of 19.15.17.13 NMAC	

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	intormation submitted with this application i	strue accurate and complete to th	a bast of and montates and ball of
Name (Print):	Crystal Fafoya	Title	Rombion Tashnioian
Sienature	Conta 1 An love	Data:	
o mail addroses	Cupiles Jujoya	Date:	12/22/2008
C-main address.	2 TO CALL A CALL A CALL AND AND CALL	telephone:	505-326-9837
20			
DCD Approval:	Permit Application (including closure p	lan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative	Signature:		
			Approval Date:
l'itle:		OCD Per	mit Number:
losure Report (requ	ired within 60 days of closure complet	tion): Subsection K of 10.15.17.13.NM	C
nstructions: Operators a	ire required to obtain an approved closure p	lan prior to implementing any clo.	w sure activities and submitting the closure report. The closure
eport is required to be s	ubmitted to the division within 60 days of the	completion of the closure activiti	es. Please do not complete this section of the form until an
pproven crosure prin ni	is been obtained and the closure activities he	ave been completed.	
		Closu	re Completion Date:
22			
losure Method:			
Waste Excavation	n and Removal On-site Closure N	Method Alternative Closure	e Method Waste Removal (Closed-loop systems only)
If different from a	approved plan, please explain.		
-			
istructions: Please iden ere utilized.	tify the facility or facilities for where the lie	quids, drilling fluids and drill cutt	ings were disposed. Use attachment if more than two facilities
Disposal Facility Nam	e:	Disposal Facility	Permit Number:
Disposal Facility Nam	e:	Disposal Facility	Permit Number:
Were the closed-loop	system operations and associated activities p	erformed on or in areas that will n	at he used for future service and operations?
			be used for fitture service and opeantons?
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Required for impacted Site Reclamation Soit Backfilling and Re-vegetation App Closure Report Attle Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Site Reclamation App Site Reclamation Consumption Sa On-site Closure I	e demonstrate complilane to the items below lareas which will not be used for future serv (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation oplication Rates and Seeding Technique (Photo Documentation) Location: Latitude:) No ice and operations: of the following items must be atta e) Longitude:	inched to the closure report. Please indicate, by a check mark in
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	e demonstrate complilane to the items below lareas which will not be used for future serv. (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Deficition Rates and Seeding Technique (Photo Documentation) Location: Latitude:) No ice and operations: of the following items must be atta of the following items must be atta by Longitude:	Ind complete to the best of my knowledge and belief. I also certify that
	e demonstrate complilane to the items below lareas which will not be used for future serv. (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation oplication Rates and Seeding Technique (Photo Documentation) Location: Latitude: formation and attachments submitted with the all applicable closure requirements and cond) No ice and operations: of the following items must be atta of the following items must be atta by Longitude: Longi	no of a control inducts of the closure report. Please indicate, by a check mark in NAD 1927 1983 und complete to the best of my knowledge and belief. I also certify that osure plan.
Pros (II yes, picase Required for impacted Site Reclamation Soit Backfilling and Re-vegetation App Image: Closure Report Attraction Proof of Closure Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soit Backfilling and Re-vegetation App Site Reclamation On-site Closure I Protector Closure Certify that the injact closure complies with and Ame (Print):	e demonstrate complilane to the items below l'areas which will not be used for future serv (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Deficient Rates and Seeding Technique of (Photo Documentation) Location: Latitude:) No ice and operations: of the following items must be attac e) Longitude: is closure report is ture, accurate a litions specified in the approved cl Title:	Inched to the closure report. Please indicate, by a check mark in
Prescription Required for impacted Site Reclamation Soit Backfilling and Re-vegetation App Closure Report Atting Proof of Closure Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Site Reclamation On-site Closure I Perator Closure Certify that the information of the informat	e demonstrate complilane to the items below lareas which will not be used for future serv. (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation oplication Rates and Seeding Technique (Photo Documentation) Location: Latitude:) No ice and operations: of the following items must be attac e) Longitude: is closure report is ture, accurate a litions specified in the approved cl Title: Date:	In the closure report. Please indicate, by a check mark in Inched to the closure report. Please indicate, by a check mark in NAD 1927 1983
res (i) yes, piease Required for impacted Site Reclamation Soil Backfilling au Re-vegetation App Image: Proof of Closure Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling a Re-vegetation App Soil Backfilling a On-site Closure I Perator Closure Certify that the injactor of closure complies with a ame (Print): gnature:	e demonstrate complilane to the items below l areas which will not be used for future serv. (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation oplication Rates and Seeding Technique (Photo Documentation) Location: Latitude:) No ice and operations: of the following items must be atta of the following items must be atta by Longitude: Longit	ached to the closure report. Please indicate, by a check mark in

New Mexico	Office of	the State	Engineer
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	Town	ship: 311	N Range:	11W	Sections:				
	NAD27	X:	Y:		Zone:		Search Radius	\$:	
County:		В	asin:			Num	lber:	Suffix:	
Owner Na	ame: (Firs	it)		(Last)		\bigcirc I	Non-Domestic	ODomestic) All
PC	DD / Surface	e Data Re	port	Avg	Depth to Wate	r Report	Wate	r Column Report	

WATER COLUMN REPORT 08/20/2008

	(quarters	are	• 1=	NW	2=	NE	3=SW	4=SE)							
	(quarters	are	e bi	gge	st	to	smal	lest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	g	a	a	Zone		x	Y	Well	Water	Column	,	
SJ 02395	31N	11W	13	1	1	3					95	35	60		
SJ 01640	31N	11W	13	2	4						32	7	25		
SJ 01551	31N	11W	13	2	4						64	42	22		
SJ 00560	31N	11W	13	2	4						39	25	14		
SJ 01729	31N	11W	13	2	4						48	28	20		
SJ 01541	31N	11W	13	3							52	30	22		
SJ 01539	31N	11W	13	3							. 52	30	22		
SJ 00946	31N	11W	13	3	3						135	100	35		
SJ 01540	31N	11W	13	4							52	30	22		•
SJ 01879	31N	11W	13	4							26	8	18		
SJ 01801	31N	11W	13	4							22	15	7		
SJ 03413	31N	11W	13	4	2						60				
SJ 03412	31N	11W	13	4	2						60				
SJ 03736 POD1	31N	11W	13	4	2	1					19	6	13		
SJ 02495	31N	11W	13	4	2	1					28	12	16		
SJ 03623	31N	11W	13	4	2	1					30	16	14		
SJ 03264	31N	11W	13	4	2	2					20	11	9		
SJ 03124	31N	11W	13	4	2	4					20	5	15		
SJ 03125	31N	11W	13	4	2	4					20	5	15		
SJ 03712 POD1	31N	11W	13	4	3	1					19	11	8		
SJ 03018	31N	11W	13	4	3	4					20	8	12		
SJ 03670	31N	11W	13	4	3	4					26	10	16		
SJ 01538	31N	11W	13	4	4						52	30	22		
SJ 01683	31N	11W	13	4	4						45	25	20		
SJ 01731	31N	11W	13	4	4						43	25	18		
SJ 01644	31N	11W	13	4	4						23	6	17		
SJ 02149	31N	11W	13	4	4						35				
SJ 01645	31N	11W	13	4	4						22	б	16		
SJ 01767	31N	11W	13	4	4						42	18	2.4		
SJ 01730	31N	11W	13	4	4						40	24	16		
SJ 01699	31N	11W	13	4	4						42	12	30		
SJ 01609	31N	11W	13	4	4						40	18	22		

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SJ 01537	211	NT 1167 15	, ,	3 4						
ST 01542	21	N ILW LI		± 4				52	28	24
ST 01662	TI	N TIW TO	5 4	1 4						c) 1
ST 02003	311	V LIW 13	3 4	14				45	25	20
SU 02033	311	N 11W 13	4	4	VJ	470700	2143800	4.0	20	20
30 03440		V 11W 13	4	4 1				2:0	20	20
SJ 03084	311	V 11W 13	4	4 2				1.0	0	14
SJ 03085	311	V 11W 13	4	4 2				19	11	8
SJ 02801	311	J 11W 13	4	4 3				18	8	10
SJ 03064	311	J 11W 13	A	1 3				.36	5	31
SJ 01142	31N	I 11M 13	A				-7	45		
SJ 02838	311		4	4 4				30	8	22
SJ 02855	211	1 1 1 L 1 2 2	4	4 4				38	10	28
ST 01173		1 11W 13	4	44				31		20
ST 02290	3 IN	1 11W 13	4	4 4				46	28	1.0
50 02209	31N	11W 13	4	4 4				45	16	10
50 03458	31N	11W 19	3	3 4				140	10	29
SJ 02978	31N	11W 23	2	1 3				200 T-10		
SJ 01817	31N	11W 23	2	4				000	0.0	
SJ 02129	31N	11W 23	2	4				00	20	45
SJ 02161	31N	11W 23	3	4				12	35	37
SJ 01600	31N	11W 24	1					40	25	15
SJ 02124	31N	11W 24	1	1				30	6	24
SJ 03755 POD1	31N	111 24	1	1		0.001.10		55	40	15
SJ 03695 POD1	31M	1111 24	1	4 0		269112	2142037	27	7	20
SJ 03695 POD	31M	110 24	1	4 2				25	13	12
SJ 03696	31M	11. 24	1	4 2				25	13	12
SJ 03695	2111	11W 24	T	4 2				24	12	12
ST 03596 POD1	, JIN	11W 24	1	4 2				25	13	10
ST 01550 POD1	_ 31N	11W 24	1	4 2				24	12	10
ST 01744	31N	11W 24	2					50	27	12
SU 01744	31N	11W 24	2	2				44	20	23
SJ 01375	31N	11W 24	2	2				30	20	24
SJ 01986 S	31N	11W 24	2	2 2				15	11	19
SJ 01986	31N	11W 24	2	2 2				4.5	30	1.5
SJ 00555	31N	11W 24	2	2 4				38	21	17
SJ 03408	31N	11W 24	2	3 1				60	19	41
SJ 02928	31N	11W 24	2	3 2				26	11	15
SJ 02924	31N	11W 24	2	3 2				/0		
SJ 02846	31N	11W 24	2	3 3				33	15	18
SJ 02888	31N	11W 24	2	2 2				45	18	27
SJ 03650	31N	11W 24	2.	2 2				65		
SJ 00555 X	31N	111 24	2	A .				32	15	17
SJ 02839	31N	1111 24	2	1 1				58	3.9	19
SJ 03707 POD1	31N	1111 24	2 4	¥⊥ 411				55	19	36
SJ 02758	31M	1167 24	2 4	4 Q				60	40	20
SJ 02791	31M	11.7 24	2 4	1 2				69	51	18
SJ 00379	2 1 M	11W 24	2 4	42				74	54	2.0
ST 00365	D 1 M	11W 24	2 4	14				65	40	25
ST 01670	DIN	11W 24	2 4	14				71	40	31
SC 01070	31N	11W 24	3					45	27	19
50 00287	31N	11W 24	3 2	2 4				38	6	20
SJ 01553	31N	11W 24	3 4	l.				44	35	34
SJ 02171	31N	11W 24	3 4	3				45	22	9
SJ 01366	31N	11W 24	4 1					30	40	20
SJ 02644	31N	11W 24	4 1	4				20	10	19
SJ 00913	31N	11W 24	4 3					45	18	27
SJ 01405	31N	11W 24	4 3					81	55	26
SJ 01455	31 N	1111 24	- J A J	Λ				30	9	21
SJ 01047	31 M	1167 04	-1 J	1±				101	66	35
SJ 00405	2 J NT	1167 04	4 3	4				205	70	135
SJ 03438	J 1 M	1.LW 24	4 3	4				69	42	27
ST 03045	D 1 N	LIW 24	4 4	4				40		<u> </u>
20.00083	STN	11W 25	1 4	4				200		

.

SJ	02499	31N	11W 25	2	1	1		66	45	21
SJ	03198	31N	11W 25	3	3	1		600	100	500
SJ	02834	31N	11W 25	3	3	3		200	160	40
SJ	03450	31N	11W 25	3	3	3		144	95	19
SJ	03126	31N	11W 26	1	1	1		41	21	20
SJ	01233	31N	11W 26	1	4			/19	57	20
SJ	03158	31N	11W 26	1	4	2		200	27	24
SJ	00675	31N	11W 26	1	4	3		200	20	255
SJ	02887	31N	11W 26	1	Â	Δ		50	2.4	1.4
SJ	02898	31 M	11W 26	2	1	-1	4	1C	28	23
S.T	01789	311	116 26	2	1	~5		50		
g.T	00705	31M	11W 20	2 2	1	1		29	12	17
C.T	00271	DIN	110 20	2	1	1		18	8	10
0.1	02222	JIN	11W 26	3	1	Ľ.		29	9	20
0.7	03323	D 1 N	11W 26	3	1	4		30	6	24
30	00363	SIN	11W 26	3	1	4		25	5	20
50	UIDED A	31N	11W 26	3	3			27	10	17
SU .	00926	31N	11W 26	4	1			62	32	30
SJ	01519	31N	11W 26	4	2			69	47	22
SJ	01620	31N	11W 26	4	2			67	26	41
SJ	00610	31N	11W 26	4	2			80	50	30
SJ	02011	31N	11W 26	4	2			55	3.8	17
SJ	01628	31N	11W 26	4	2			66	25	41
SJ	03697 POD1	31N	11W 26	4	2	3		80	50	30
SJ	00562	31N	11W 26	4	3			40	20	20
SJ	00561	31N	11W 26	4	3			38	20	18
SJ	01042	31N	11W 26	4	4			100	30	70
SJ	00494	31N	11W 26	4	4			88	60	28
SJ	02482	31N	11W 27	4	1	2		75	55	20
SJ	03600	31N	11W 27	4	2	1		51	39	12
SJ	03540	31N	11W 27	4	2	1		4.0	21	19
SJ	03772 POD1	31N	11W 27	4	2	1	268239 2135717	41	30	11
SJ	02914	31N	11W 27	4	2	3		25	15	10
SJ	02468	31N	11W 27	4	2	3		49	30	19
SJ	02656	31N	11W 27	4	2	4		21	9	12
SJ	02871	31N	11W 27	4	2	4		. 22	11	11
SJ	02215	31N	11W 27	4	3			54	23	31
SJ	02676	31N	11W 27	4	3			19	7	12
SJ	03247	31N	11W 27	4	3	1		70		10
SJ	03505	31N	11W 27	4	3	3		50	14	36
SJ	02549	31N	11W 27	4	3	3		49	30	19
SJ	02853	31N	11W 27	4	3	4		22	6	16
SJ	02984	31N	11W 27	4	4	1		20	-	
SJ	03181	31N	11W 27	4	4	1		19	10	9
SJ	01884	31N	11W 30	4	2	3		71	30	41
SJ	01739	31N	11W 30	4	2	4		98	30	68
SJ	01154	31N	11W 30	4	2	4		190	150	40
SJ	01834	31N	11W 30	4	2	4		103	30	73
SJ	01797	31N	11W 30	4	4			100	40	60
SJ	01396	31N	11W 30	4	4	1		80	57	23
SJ	00970	3.1N	11W 30	4	4	4		110	80	20
SJ	01811	31N	11W 31	2	2			89	50	2.0
SJ	02994	31N	11W 33	4	3	2		300	200	100
SJ	02993	31N	11W 33	4	3	2		280	160	-120
SJ	01137	31N	110 33	4	4	4		200	10	10
SJ	02277	31N	11W 34	1	2	^		16	2	ΔT
SJ	02167	31N	1111 21	1	1			10	c 0	9
SJ	01533	31 M	11W 24	1				03	09	14
SJ	01251	31 M	1111 21	1 1	-± A			20	40	18
S.T	03211	31M	11111 24	.L. 1	1±	1		79	65	14
	The second	→ T T A	771/ 34	1	-	1		24	1.4	(()

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SJ 01125	311	J 11W 34	1 1 4 2		
SJ 01657	311	J 11W 34	2		
SJ 01675	311	1 11W 34	2		
SJ 00632	31N	J 11W 34	2		
SJ 01656	31N	I 11W 34	2		
SJ 00656	31N	1 11W 34	2		
SJ 00631	31N	11W 3A	2		
SJ 03448	31N	111M 34	2 1		
SJ 01267	31N	1110 24	2 1		
SJ 01618	31N	1110 34			4
SJ 01840	31N	1167 24			
SJ 03316	21N1 71N1	11W 34			
ST 00660		11W 34	2 1 1		
S.T. 01768		11W 34	211		
S.T. 01721	3 1 NT	11W 34	2 2		
ST 03173	31N	11W 34	2 2		
ST 03047	31N	11W 34	2 2 2		
ST 02110	31N	11W 34	224		
SU 02119	31N	11W 34	2 3		
SU 02115	31N	11W 34	2 3		
SU 00059	31N	11W 34	2 3		
SJ 00661	31N	11W 34	2 3 1		
SJ 02972	31N	11W 34	2 3 4		
SJ 03107	31N	11W 34	2 4 1		
SJ 03106	31N	11W 34	2 4 1		
SJ 03183	31N	11W 34	244		
SJ 03780 PODI	31N	11W 34	3 1 2	267922	2130341
55 02859	31N	11W 34	3 1 4		
SJ 02967	31N	11W 34	3 2 3		
SJ 02856	31N	11W 34	3 2 3		
SJ 02852	31N	11W 34	3 2 3		
SJ 03065	_ 31N	11W 34	3 2 3		
SJ 03025	31N	11W 34	3 2 3		
SJ 03014	31N	11W 34	3 2 4		
55 03002	31N	11W 34	3 2 4		
55 02861	JIN	11W 34	3 3 1		
SJ 03220	31N	11W 34	331		
SJ 03042	31N	11W 34	332		
SJ 03710 POD1	31N	11W 34	3 3 2		
SJ 03048	31N	11W 34	3 3 4		
SJ 02857	31N	11W 34	3 4 1		
SJ 03492	31N	11W 34	3 4 2		
S5 03031	3 IN	11W 34	3 4 2		
ST 03357	21M	11W 34	3 4 2		
ST 03260	21N	11W 34	342		
ST 03609	DIN	11W 34	3 4 4		
9.T 01609	DIN	11W 34	344		
ST 03720 POD1		LLW 34	4		
ST 03/07	3 I N	11W 34	4 1 3		
ST 03402	311	11W 34	4 1 4		
S.T 03377	VILC	11W 34	4 1 4		
8.T 02016	3 IN	LIW 34	4 2 4		
ST 03720 DOD1	JIN 211-	11W 34	4 3 1		
81 03022 FODT	3 IN	LIW 34	4 3 1		
01 V2300	31N	11W 34	4 3 3		
91 00982	31N	11W 34	4 4		
50 02827	31N	11W 35	1 1 2		
SJ 03371	31N	11W 35	1 1 3		
SJ 02902	31N	11W 35	1 1 3		
SJ 02897	31N	11W 35	1 3 1		

	59 20 33 25 20 30 41 65 28 65 30 50 20 22 19 19 19 11 12 33 52 15 18	42 6 7 6 8 11 21 45 8 25 10 30 6 10 7 6 3 4 11 32 5 8	17 14 26 18 14 22 19 20 20 20 20 20 20 20 20 20 20 20 20 20
0341	25 19 28 22 20 24 23 22 22 22 30 22	6 12 6 5 6 7 7 5 5	13 16 15 18 16 15 17 25
	21 20 23 20 21 23 30	7 6 4 4 6	14 14 17 16 17
	27 25 22 41 27 48 21 30	6 15 6 3 6 17 6 10	21 10 16 38 21 31 15 20
	25	2	18
	35 25 48 40 60	3 20 16	· 22 28 24
	21 19 17	5 5 6	16 14 11

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SJ	00333		31N	11W	35	1	3	4	
SJ	03760	POD1	 31N	11W	35	1	4	1	
SJ	03543		 31N	11W	35	1	4	4	
SJ	01144		 31N	11W	35	1	4	4	
SJ	01319		31N	11W	35	2	2	2	
SJ	00185		 31N	11W	35	2	3		
SJ	03676		 31N	11W	35	2	3	1	
SJ	03560		31N	11W	35	2	3	2	
SJ	03165		 31N	11W	35	2	4	4	
SJ	03166		 31N	11W	35	2	4	4	
SJ	00983		 31N	11W	35	3			
SJ	00939		 31N	11W	35	3			
SJ	00940		 31N	11W	35	3	.1		
SJ	01580		 31N	11W	35	3	1	1	
SJ	02932		 31N	11W	35	3	1	2	
SJ	02933	Al 4	 31N	11W	35	3	1	2	
SJ	03574		31N	11W	35	3	1	4	
SJ	00591		 31N	11W	35	3	1	4	
SJ	00939	1	 31N	11W	35	3	2		
SJ	00713		31N	11W	35	4	2		

		30	6	24
268465	2130772	43	12	31
		61	30	31
		55	30	25
			155	
		54		
		52	19	33
		62	32	30
		20		
	-1	20		
		110	70	40
		60	30	30
		64	15	49
		65	30	35
		27	14	13
		37	24	13
		100		20
		83	54	29
		6.0	30	30
		37	19	18

Record Count: 229

New Mexico Office of the State Engineer

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			New A	<i>Aexico (</i> POD Re	<i>Office of the</i> ports and D	State ownl	<i>Engine</i> oads	er:				
	Township	: 32N	Range	e: 11W	Sections:							
N	AD27 X:		Y:		Zone:			Search Ra	adius:			
County:		Bas	in:				Numb	er:	Suff	ix:		
Owner Name	: (First)			(Last)		ON	on-Dome	stic OD	Oomestic	• A	11
			Clear	Form	[iWATERS	6 Men	u H	leip				-
	(quarter	s are	V 1=NW 2	NATER C	OLUMN REPO	RT 08	8/20/20	08				
	(quarter	s are	bigges	st to s	mallest)			Depth	Depth	Water	(in	feet)
POD Number	TWS	Rng S	Sec q q	I Q Z	one X		Y	Well	Water	Column		
SJ 01360	32N	11W 3	19 2 2	2				180	155	25		
SJ 01327	32N	11W 3	23 2 2	2 3				90	50	40		
SJ 00021	32N	11W 2	23 3					585				
SJ 00017	32N	11W 3	24 2					105				
SJ 00020	32N	11W :	29 3					588				

321

Record Count: 6

SJ 00026

32N 11W 33 2

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Township:	31N Range: 12W	Sections:	
NAD27 X:	Y:	Zone:	Search Radius:
County:	Basin:		Number: Suffix:
Owner Name: (First)	(Last)		ONON-Domestic ODomestic OAll
POD / Surface Data	Report Avg	Depth to Water	Report Water Column Report

WATER COLUMN REPORT 08/20/2008

		(quarters	are	1=N	V 2:	=NE	3=SW 4=SE)							
		(quarters	are	bigg	jest	t to	smallest)			Depth	Depth	Water	(in f	eet)
POD	Number	Tws	Rng	Sec o	PI	g	Zone	X	Y	Well	Water	Column		
SJ	03488	31N	12W	01 3	3 3	2				150				
SJ	03738 POD1	31N	12W	01 4	1 1	3				115	50	65		
SJ	02034	31N	12W	01 4	13					85	55	30		
SJ	03134	31N	12W	01 4	13	2				80	20	60		
SJ	03022	31N	12W	01 4	13	2				490	250	240		
SJ	01660	31N	12W	01 4	13	3				320	275	45		
SJ	01649	31N	12W	01 4	13	4				220	161	59		
SJ	03660	31N	12W	01 4	4 3	4				· 70	42	28		
SJ	02099	31N	12W	01	4 4					95				•
SJ	02904	31N	12W	08	14	4				325	142	183		
SJ	03026	31N	12W	24	43	4				140	85	55		
SJ	01477	31N	12W	25	2					565	505	60		
SJ	01163	31N	12W	25	2 1	3.	, ·			200	90	110		
SJ	01108	31N	12W	25	21	4				245	90	155		
SJ	01303	31N	12W	25	22	3				210				
SJ	01180	31N	12W	25	22	4				200	120	80		
SJ	00968	31N	12W	25	24					170	100	7.0		
SJ	03204	31N	12W	31	43	1				40	20	20		
SJ	02021 X	31N	12W	3.5	42					290	250	40		
SJ	02021	31N	12W	35	4 2					115				
SJ	03309	31N	12W	35	4 4	4				240	210	30		

Record Count: 21

4

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	Towns	hip: 32N	Range:	12W	Sections:				
ľ	NAD27	X:	Y:		Zone:		Search Radius	5:	
County:		Basi	n:			Num	iber:	Suffix:	
Owner Nan	ne: (First))		(Last)		\bigcirc I	Non-Domestic	○ Domestic	• Al
POL	D / Surface	Data Repo	t	Avg	Depth to Water	Report	Wate	r Column Repor	t)

WATER COLUMN REPORT 08/20/2008

	(quarter) (quarter)	s are s are	e 1= e bi	NW 99	2: esi	=NE t to	3=SW asmal:	4=SE) lest)			Depth	Depth	Water	(in fe	et)
POD Number	Tws	Rng	Sec	g	Ð	g	Zone	x		Y	Well	Water	Column		
SJ 01213	32N	12W	18	2	3	4					640	20	620		
SJ 01212	32N	12W	18	4	1	3					43	5	38		
SJ 03583	32N	12W	23	1	1	1					167	60	107		
SJ 00055	32N	12W	25	2							504				
SJ 02110	32N	12W	28	2	1	4	W	391500	217000	0	171	90	81		
SJ 01106	32N	12W	35	3	4						180	115	65		

Record Count: 6



AERIAL MAP LAWSON FEDERAL 1A



Mines, Mills and Quarries Web Map

LAWSON FEDERAL 1A

Unit Letter: A, Section: 31, Town: 032N, Range: 011W



En:



MILES

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LAWSON FEDERAL 1A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LAWSON FEDERAL 1A', which is located at 36.94643 degrees North latitude and 108.02263 degrees West longitude. This location is located on the Abode Downs Ranch 7.5' USGS topographic quadrangle. This location is in section 31 of Township 32 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 Cedar Hill, located 7.4 miles to the east. The nearest large town (population greater than 10,000) is Farmington, located 17.8 miles to the southwest (National Atlas). The nearest highway is State Highway 574, located 4.1 miles to the southwest. The location is on Private land and is 421 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Middle San Juan. Arizona, Colorado, New Mexico, Sub-basin. This location is located 1976 meters or 6481 feet above sea level and receives 14.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 66 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is named Lawson Glade and is 421 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Lawson Glade and is 2,687 feet to the southwest. The nearest water body is 2,675 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.9 acres in size. The nearest spring is 15.022 feet to the east. 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 3,039 feet to the northeast. There is no wetland data available for this area. The slope at this location is 2 degrees to the west as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION-Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Atrac-Florita-Travessilla association, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 3.8 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aguifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

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:

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

9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.

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- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



PROPERTIES	TEST METHOD		JOBB	J	36B B		SRE
		Min. Rolf Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol	Min. Roll	Typical Roll
Appearance		Bla	ck/Black	Blac	k/Black	Averages	Averages
Thickness	ASTM D 5199	27 mil	30 mil	20		Blac	k/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21 74)	36 mil	40 mil 189 lbs	45 mil 210 lbs
Construction		**Ex		(21.74)	(24.19)	(27.21)	(30.24)
Ply Adhesion	ASTM D 413	16 160		u with encapsul	ated tri-direction	nal scrim reinfo	cement
	1.0111.0410	10 105	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	750 MD
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	160 lbf MD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5			TOU IDT UD	191 lbf DD
Puncture Resistance	ASTM D 4832	EDIL	-0.5	<1	<0.5	<1	<0.5
			64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
		180° F					
ninimum Use Temperature		-70° F	-70° 5				

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 discusions 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.

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, at its 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 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 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 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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