1625 N. French Dr., Hobbs, NM 88240

District II

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

Form C-144

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
and the second	

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: CRANDELL 3	
API Number: 3004525411 OCD Permit Num	aber:
U/L or Qtr/Qtr: C Section: 35 Township: 31N Range:	12W County: San Juan
Center of Proposed Design: Latitude: 36.85976°N Longitude:	-108.07024°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Ind	ian Allotment
String-Reinforced	HDPE PVC Other 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 notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE Liner Seams: Welded Factory Other	to activities which require prior approval of a permit or HDPE PVD Other
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	utomatic overflow shut-off Unspecified
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envir	ronmental 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.	attution 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		2.8
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 cons (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	sideration of a	approval.
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.	Yes	No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
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 - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

Temporary Pits, Emerger	ncy Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
	owing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Repo	ort (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data	(Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Comp	pliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
	upon the appropriate requirements of 19.15.17.11 NMAC
H	tenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	e complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of and 19.15.17.13 NMAC
	esign (attach copy of design) API or Permit
	Sign (and en copy of design)
Instructions: Each of the follo	mit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC owing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached, geologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Comp	pliance 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 Maint	tenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
	e complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15.13	
Previously Approved De	esign (attach copy of design) API
Previously Approved Op	perating and Maintenance Plan API
13	
	pplication Checklist: Subsection B of 19.15.17.9 NMAC
	lowing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
=	ort - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
	bliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Facto	
	g Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
=	Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
=	gn - based upon the appropriate requirements of 19.15.17.11 NMAC
=	and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
	lity Assurance Construction and Installation Plan
=	tenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
=	topping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	ous Odors, including H2S, Prevention Plan
Emergency Response	e Plan
Oil Field Waste Stream	am Characterization
Monitoring and Inspe	ection 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
4	
Proposed Closure: 19.15.	17.13 NMAC
nstructions: Please complete	the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
ype: Drilling Wor	rkover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
roposed Closure Method:	X Waste Excavation and Removal (Below-Grade Tank)
roposed Closure Method:	Waste Removal (Closed-loop systems only)
	On-site Closure Method (only for temporary pits and closed-loop systems)
	☐ In-place Burial ☐ On-site Trench
	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Vaste Excavation and Re	moval Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan
	ark in the box, that the documents are attached.
A STATE OF THE PARTY OF THE PAR	dures - based upon the appropriate requirements of 19.15.17.13 NMAC
	ing Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
	me and Permit Number (for liquids, drilling fluids and drill cuttings)
	ver Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
	based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan	n - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Disposal Facility Name:	Disposal Facility Permit #:	
	Disposal Facility Permit #:	
	ated activities occur on or in areas that will not be used for future	
Required for impacted areas which will not be used for future service an Soil Backfill and Cover Design Specification - based upon Re-vegetation Plan - based upon the appropriate requireme	the appropriate requirements of Subsection H of 19.15.17.13 NM/	AC
Site Reclamation Plan - based upon the appropriate require		
	closure pian. Recommendations of acceptable source material are provided be e district office or may be considered an exception which must be submitted to th	
Ground water is less than 50 feet below the bottom of the buried w	vaste.	Yes No
- NM Office of the State Engineer - iWATERS database search; US	GS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the	buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USG		N/A
Ground water is more than 100 feet below the bottom of the buried	Lwaste	Tyes No
NM Office of the State Engineer - iWATERS database search; USG		□ I N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any (measured from the ordinary high-water mark).		Yes No
- Topographic map; Visual inspection (certification) of the proposed	site	
Vithin 300 feet from a permanent residence, school, hospital, institution, - Visual inspection (certification) of the proposed site; Aerial photo; s	(\$-3)	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or sprin purposes, or within 1000 horizontal fee of any other fresh water well or sp - NM Office of the State Engineer - iWATERS database; Visual inspe	pring, in existence at the time of the initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal sursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written	**************************************	Yes No
Vithin 500 feet of a wetland		Yes No
 US Fish and Wildlife Wetland Identification map; Topographic map Vithin the area overlying a subsurface mine. 		Yes No
 Written confirantion or verification or map from the NM EMNRD-l Within an unstable area. 	Mining and Mineral Division	
Engineering measures incorporated into the design; NM Bureau of C Topographic map	Geology & Mineral Resources; USGS; NM Geological Society;	Tes INO
Vithin a 100-year floodplain FEMA map		Yes No
y a check mark in the box, that the documents are attached.	ions: Each of the following items must bee attached to the closur	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the		
Proof of Surface Owner Notice - based upon the appropriate		
	ased upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place bur Protocols and Procedures - based upon the appropriate requi	rial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate		
	requirements of Subsection F of 19.15.17.13 NMAC ling fluids and drill cuttings or in case on-site closure standards car	and he sahina d
Soil Cover Design - based upon the appropriate requirement	A STATE OF THE PROPERTY OF THE	mot be achieved)
Re-vegetation Plan - based upon the appropriate requirement		
Site Reclamation Plan - based upon the appropriate requirem		

Form C-144

19		
Operator Application Certification: I hereby certify that the information submitted with this application is true, acc	urate and complete to th	bast of my knowledge and belief
	Title:	Regulatory Technician
Signature: e-mail address: crystal.tafoya@conocophilips.cm	Date:	12/22/2008
e-mail address: crystal tafoya@conocophilips.@m	Telephone:	505-326-9837
20 OCD Approval: Permit Application (including closure plan)	Closure Plan (only	OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Per	mit Number:
21		
Closure Report (required within 60 days of closure completion): Sub- Instructions: Operators are required to obtain an approved closure plan prior		
report is required to be submitted to the division within 60 days of the complete	ion of the closure activiti	·
approved closure plan has been obtained and the closure activities have been of	completed.	
and the state of t	Closus	re Completion Date:
22		
Closure Method:		
Waste Excavation and Removal On-site Closure Method	Alternative Closur	e Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.		
23		
Closure Report Regarding Waste Removal Closure For Closed-loop System		
Instructions: Please identify the facility or facilities for where the liquids, driv were utilized.	lling fluids and drill cut	ings were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facilit	y Permit Number:
Disposal Facility Name:		y Permit Number:
Were the closed-loop system operations and associated activities performed	on or in areas that will r	ot be used for future service and opeartions?
Yes (If yes, please demonstrate compliane to the items below)	No	
Required for impacted areas which will not be used for future service and o	perations:	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
24 Closure Report Attachment Checklist: Instructions: Each of the foli	lowing items must be att	ached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.		and the country open a country of a circle man in
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)		
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)		
On-site Closure Location: Latitude:	Longitude:	NAD 1927 1983
On-site closure Executori. Landace.	Longitude.	1721 1763
25		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure	e report is ture, accurate	and complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions sp	pecified in the approved	losure plan.
Name (Print):	Title:	
Signature:	Date:	
	_	
e-mail address:	Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Rang NAD27 X: Y:	e: 12W Sections: Zone:	▼ Sear	ch Radius:
County: Basin: Owner Name: (First)	(Last)	Number:	Suffix: Domestic C Domestic © All
POD / Surface Data Report	Avg Depth to Wa	ter Report	Water Column Report
Clear	Form iWATERS	Menu Help	

WATER COLUMN REPORT 08/21/2008

	(quarter													
POD Number	(quarter		Sec	1000			Zone			Y	Depth Well	Depth	Water	(in
SJ 02643	30N	12W		3		2	Zone	Λ.		1	195	140	55	
SJ 02707	30N	12W		3		3					235	135	100	
SJ 02145	30N	12W		3.7	1						160	110	50	
SJ 02341	30N	12W			3	-					85	39	46	
SJ 01898	30N	12W			3						140	88	52	
SJ 01692	30N	12W	04		3						156	65	91	
SJ 01798	30N	12W		4	3						158	70	88	
SJ 01792	30N	12W			3						155	109	46	
SJ 03058	30N	12W	04	4	3	3					120	48	72	
SJ 03447	30N	12W	04	4	4	4					120	80	40	
SJ 03767 POD1	30N	12W	10	2	4	2		265151	21213	25	265	82	183	
SJ 02128	30N	12W	10	3	4						140	60	80	
SJ 00945	30N	12W	10	3	4						130	70	60	
SJ 00421	30N	12W	10	4	4						126	43	83	
SJ 00142	30N	12W	11	4	4	2					192	122	70	
SJ 00651	30N	12W	11	4	4	4					193	123	70	
SJ 03129	30N	12W		3	4	2					44	35	9	
SJ 03027	30N	12W		3	4	3					100			
SJ 00384	30N	12W	12	4	3	2					57	20	37	
SJ 03020	30N	12W		4	3	4					52	30	22	
SJ 00643	30N	12W		4							75	51	24	
SJ 03757 POD1	30N	12W		4	4			266123	21182	78	22	12	10	
SJ 00322	30N	12W		4	4	1					66	40	26	
SJ 00888	30N	12W		1							81	50	31	
SJ 00518	30N	12W		1							55	15	40	
SJ 00935	30N	12W		1							54	10	44	
SJ 00316	30N	12W			1						56	30	26	
SJ 00337	30N	12W			1						43	17	26	
SJ 00773	30N	12W			1	1					68	50	18	
SJ 00821	30N	12W			3						42	15	27	
SJ 03063	30N	12W			3	1					40	25	15	
SJ 02803	30N	12W	13	2	2	2					68	43	25	

SJ 02114	30N	12W 13	2 :	2 4	4	49		
SJ 01403	30N	12W 13	2 :	2 4	4	51	15	36
SJ 01773	30N	12W 13	3			60	25	35
SJ 00299	30N	12W 13	3 :	2		49	18	31
SJ 00123	30N	12W 14	1 :	1 1	1	60	38	22
SJ 00854	30N	12W 14	1 .	4		87	50	37
SJ 00667	30N	12W 14	2 :	2 4	1	60	45	15
SJ 01161	30N	12W 14	2	4		37	20	17
SJ 00596	30N	12W 14	3	1		72	26	46
SJ 00105	30N	12W 14	3	1		38	25	13
SJ 00735	30N	12W 14	3	1 :	3	50	30	20
SJ 00676	30N	12W 14	3	2		51	30	21
SJ 00574	30N	12W 14		2		72	50	22
SJ 03318	30N	12W 14			4	50		
SJ 00129	30N	12W 14		4		50	10	40
SJ 00107	30N	12W 14		4		50	15	35
SJ 01674	30N	12W 14		4		65	16	49
SJ 00124	30N	12W 14		4		55	10	45
SJ 00271	30N	12W 14		4		43	23	20
SJ 00508	30N	12W 14			2	45	6	39
SJ 00458	30N	12W 14		1		37	15	22
SJ 03472	30N	12W 14			1	60	8	52
SJ 02739	_ 30N	12W 14			2	65	10	55
SJ 03643	30N	12W 14			4	40	15	25
SJ 00482	30N	12W 14		3		43	6 8	37 31
SJ 00290	30N	12W 14 12W 15	4	3		39 78	50	28
SJ 02168	30N	12W 15				95	50	45
SJ 00367 SJ 01178	_ 30N	12W 15	1	4		110	80	30
SJ 03401	30N	12W 15		4 :	3	180	56	124
SJ 01881	30N	12W 15	2	1 .	,	157	100	57
SJ 00817	30N	12W 15		3 4	4	96	53	43
SJ 03108	30N	12W 15		4 :		110	29	81
SJ 03432	30N	12W 15		4 2		165	105	60
SJ 01162	30N	12W 15	3	Tres 10		50		
SJ 00145	30N	12W 15	3			165	60	105
SJ 00709	30N	12W 15	3			52	20	32
SJ 02120	30N	12W 15	3			77	55	22
SJ 00883	30N	12W 15	3			75	35	40
SJ 00416	30N	12W 15	3	1		120	60	60
SJ 02127	30N	12W 15		3		55	35	20
SJ 03238	30N	12W 15	3		2	75	30	45
SJ 02760	30N	12W 15			2	50	21	29
SJ 00928	30N	12W 15		4		68	32	36
SJ 00710	_ 30N	12W 15	3			90	30	60
SJ 00816	30N	12W 15	3			58	30	28
SJ 00717	30N	12W 15	3			100	60	40
SJ 00684	30N	12W 15		4		73	30	43
SJ 01215	30N	12W 15		4		60	30 20	30 30
SJ 01037	30N	12W 15		4		50 68	30	38
SJ 00829	30N	12W 15		4		92	40	52
SJ 00714	30N	12W 15		4		90	30	60
SJ 00730	30N	12W 15 12W 15		4		90	30	60
SJ 00731	30N	12W 15		4		58	35	23
SJ 00912	30N	12W 15		4		50	22	28
SJ 01793	30N	12W 15		4		43	20	23
SJ 00828 (1) SJ 00828	30N	12W 15	-	4		59	28	31
SJ 00828 SJ 01438	30N	12W 15	3			96	66	30
DO 07#30	2011	17M 13	5	4		90	00	30

SJ 00481	30N	12W 15	3 4	2				52	30	22
SJ 00516	30N	12W 15	3 4	3				55	8	47
SJ 00927	30N	12W 15	4 1	2				204	75	129
SJ 00594	30N	12W 15	4 2					145	95	50
SJ 00810	30N	12W 15	4 3	3				96	35	61
SJ 03159	30N	12W 15	4 4	2				60		
SJ 02514	30N	12W 15	4 4	4				57	25	32
SJ 01279	30N	12W 16	4 4					200	100	100
SJ 02627	30N	12W 18	1 2	2				354	250	104
SJ 03808 POD1	30N	12W 18	1 3	1		266399	2116162	42	9	33
SJ 02697	30N	12W 18	1 4	3				360	290	70
SJ 01892	30N	12W 18	1 4	4				465	420	45
SJ 01619	30N	12W 18	2 1					395	345	50
SJ 01619 X	30N	12W 18	2 1					380	350	30
SJ 02137	30N	12W 18	2 2	4				460	380	80
SJ 01737	30N	12W 18	2 3					540		
SJ 02080	30N	12W 18	2 3					370	340	30
SJ 01013	30N	12W 18	3					310	250	60
SJ 01014	30N	12W 18	3					306	250	56
SJ 01080	30N	12W 18	3 1					305	265	40
SJ 00575	30N	12W 18	3 3	1				420	390	30
SJ 01514	30N	12W 18	3 4	3				430	380	50
SJ 02035	30N	12W 18	4					500	190	310
SJ 01971	30N	12W 18	4					405	345	60
SJ 02040	30N	12W 18	4 1	4				460	400	60
SJ 02247	30N	12W 18	4 3					465	375	90
SJ 01283	30N	12W 18	4 3					425	380	45
SJ 01896	30N	12W 18	4 4					415	372	43
SJ 01809	30N	12W 18	4 4					371	317	54
SJ 00148	30N	12W 19						270	240	30
SJ 01831	30N	12W 19	3 1					244	195	49
SJ 03477	30N	12W 19	3 4	3						
SJ 00950	30N	12W 21	4 4					70	35	35
SJ 02163	30N	12W 21	4 4		M	424400	2174000	31	15	16
SJ 01877	30N	12W 22	1 1					94	66	28
SJ 01152	30N	12W 22	1 1					66	19	47
SJ 01297	30N	12W 22	1 2					67	30	37
SJ 00439	30N	12W 22	1 3					97	50	47
SJ 03087	30N	12W 22	1 3					40	21	19
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SJ 03056	30N	12W 22	1 4	1				88	30	58
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SJ 01273	30N	12W 22	2 3					79	27	52
SJ 00800	30N	12W 22	2 3 3					80	45	35
SJ 01684	30N	12W 22	3 2					64	24	40
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SJ 03101	30N	12W 22		2				74 63	12 20	62 43
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SJ 03059	30N			2				57	21	
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SJ 03157	3 UIV	TZW ZZ	3 3	4				40	TO	20

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SJ 01464	30N	12W 22	4	1 3				40	15	25
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SJ 03233	30N	12W 22	4	1 3	3			42	8	34
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SJ 01386	30N	12W 22	1	1 3				40	12	28
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SJ 01980	30N	12W 22		1 4				20	5	15
SJ 02876	_	12W 22			2					
	30N				3			33	23	10
SJ 03397	30N	12W 22		1 4				42	5	37
SJ 03038	30N	12W 22	4	1 4	3			30	5	25
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SJ 03041	30N	12W 22	4	1 4	4			43	8	35
SJ 01168	30N	12W 23						33	13	20
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SJ 02221	30N	12W 23	-	. 1				47	12	35
SJ 03510	30N	12W 23			4			40	3	37
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SJ 01021		12W 23							6	
And the same of th	30N			2				35	13	22
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SJ 03665	30N	12W 23	4	1	3			25	6	19
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SJ 03156	30N	12W 23	4	2	2			14	8	6
SJ 00117	30N	12W 23	4	2	3			38	20	18
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SJ 01381	30N	12W 23	4	3				29	10	19
SJ 00111	30N	12W 23	4	3				28	18	10
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	30N	12W 24	1	4				27		22
SJ 02616									5	
SJ 01682	30N	12W 24	1	4				22	4	18
SJ 01681	30N	12W 24	2	4				22	4	18
SJ 01680	30N	12W 24	2	4				22	4	18
SJ 00691	30N	12W 24	3	1				30	15	15
SJ 00686	30N	12W 24	3	1	1			20	10	10
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SJ 01511	30N	12W 24	3	2				60	30	30
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SJ 01429	30N	12W 25	4					230	150	80
SJ 03008	30N	12W 25	4	1				100		
SJ 03418	30N	12W 25	4	1	4			75	18	57
SJ 01427	30N	12W 25	4	3				147	70	77
SJ 03799 POD1	30N	12W 26	2	1	3	265470	2106124	175	80	95
SJ 00429	30N	12W 26	3	3				114	40	74
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SJ 00127 X	30N	12W 27	1	2				36	15	21
SJ 00127	30N	12W 27	1	2				30	5	25
SJ 01646	30N	12W 27	1	3				23	6	17
SJ 01599	30N	12W 27	1	3				25	6	19
SJ 01617	30N	12W 27	1					24	4	20
SJ 01239	30N	12W 27		3	3			23	5	18
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		12W 27		4	2			26		
SJ 02829	30N		1		4				10	16
SJ 02700	30N	12W 27	2	1				21	7	14
SJ 01530	30N	12W 27	2	1				33	10	23
SJ 01694	30N	12W 27	2	1				32	6	26
SJ 01988	30N	12W 27	2	1				29	18	11

SJ 02620	30N	12W 27	2	1	1			30	10	20
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SJ 03243	30N	12W 27	2	1	2			35	6	29
SJ 02784	30N	12W 27	2	1	2			30		
SJ 00276	30N	12W 27	2	1	2			35	3	32
SJ 03433	30N	12W 27	2	1	2			25		
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SJ 00282	30N	12W 28						84	52	32
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SJ 02833	30N	12W 28	4	4	1			50		
SJ 03688 POD1	30N	12W 28	4	4	3			50	25	25
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SJ 02022	30N	12W 29	3					297	100	197
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SJ 03358	30N	12W 29			1			100	60	40
SJ 03278	30N	12W 29		3				120	40	80
SJ 03279	30N	12W 29		3	4			120	60	60
SJ 00536	30N	12W 29	4	1	2			50	28	22
SJ 02309	30N	12W 29			2			50	27	23
SJ 02306	30N	12W 29			1			44	25	19
SJ 01052	30N	12W 29		4	3			39 38	11	28 22
SJ 01006	30N	12W 30 12W 30	1	1	1			240	16 220	20
SJ 01314	30N	12W 30		3	+			127	52	75
SJ 01637	30N	12W 30		4	Λ			175	87	88
SJ 01632	30N				4			240	80	160
SJ 02219		12W 30	4	4	1			150	80	100
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SJ 03132	30N	12W 31			4			58	22	26
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7.00	03150	30N	12W 31	2 4	4			53	30	23
ALC: U	03237	30N	12W 31	2 4	4			70		
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	02815	30N	12W 31	3 4				30		
	03148	30N	12W 31	4 1				56	34	22
	02882	30N	12W 31	4 1				33	19	14
	03147	30N	12W 31	4 1				49	28	21
-	02867	30N	12W 31	4 1				28	14	14
	03051	30N	12W 31	4 1				40	24	16
	02792	30N	12W 31	4 1				49	30	19
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	02877	30N	12W 31	4 1				31	17	14
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	03610	30N	12W 32	1 1	2			80	50	30
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	03511	30N	12W 32	1 1	4			60	30	30
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_	03522	30N	12W 32	1 1	4			70	35	35
SJ	03521	30N	12W 32	1 1	4			55	25	30
SJ	03520	30N	12W 32	1 1	4			55	25	30
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SJ	03515	30N	12W 32	1 1	4			70	35	35
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SJ	03513	30N	12W 32	1 1	4			60	30	30
SJ	03512	30N	12W 32	1 1	4			60	30	30
SJ	03494	30N	12W 32	1 2				50		
SJ	03221	30N	12W 32	1 2				50	12	38
_	03629	30N	12W 32		3			60	20	40
	03217	30N	12W 32		3			42	12	30
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	02214 X	30N	12W 32	1 3				31	15	16
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	02117	30N	12W 32	1 3				40	19	21
	02311	30N	12W 32	1 3				34	11	23
	02177	30N	12W 32	1 3				35	11	24
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	01832	30N	12W 32	1 3				41	10	31
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SJ	02982	30N	12W 32	1 3				36	10	26
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SJ 02239	30N	12W 32		2	1	2				65	17	48
SJ 03207	30N	12W 32		2	3	2				60	30	30
SJ 03206	30N	12W 32		2	3	2				60		
SJ 00116	30N	12W 32		2	3	3				25		
SJ 00116 S	30N	12W 32		2	3	3				25		
SJ 03606	30N	12W 32		3	4	3				67	49	18
SJ 02908	30N	12W 32		4	2	4				50		
SJ 03779 POD1	30N	12W 32		4	2	4		263644	2098600	26	8	18
SJ 02804	30N	12W 32		4	3	4				50		
SJ 00519	30N	12W 32	2	4	4	3				24	12	12
SJ 03349	30N	12W 33	3	1	2	1				55		
SJ 03143	30N	12W 33	3	1	2	3				97	60	37
SJ 03110	30N	12W 33	3	1	2	4				320	54	266
SJ 01390	30N	12W 33	3	1	3					40	22	18
SJ 01174	30N	12W 33	3	1	3					36	19	17
SJ 03143 POD2	30N	12W 33	3	1	4	2				40	10	30
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SJ 00605	30N	12W 33	3	2	1	2				72	35	37
SJ 02981	30N	12W 33	3	2	1	2				100	60	40
SJ 00606	30N	12W 33	3	2	1	2				104	35	69
SJ 01072	30N	12W 33	3	2	2					110	50	60
SJ 01036	30N	12W 33	3	2	2					105	70	35
SJ 01045	30N	12W 33	3	2	2					73	45	28
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SJ 00505	30N	12W 33	3	2	4					85	45	40
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SJ 02212	30N	12W 33		3	3					320	269	51
SJ 01633	30N	12W 33		3	3					280	240	40
SJ 00447	30N	12W 33		4	1					104	65	39
SJ 00622	30N	12W 33		4	1	2				76	41	35
SJ 00590	30N	12W 33		4	1					98	60	38
SJ 00986	30N	12W 33		4	2					104	80	24
SJ 01231	30N	12W 33		4	2	3				246	161	85
SJ 00428	30N	12W 34			4					107	25	82
SJ 02296	30N	12W 36			3					300	89	211
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Record Count: 432

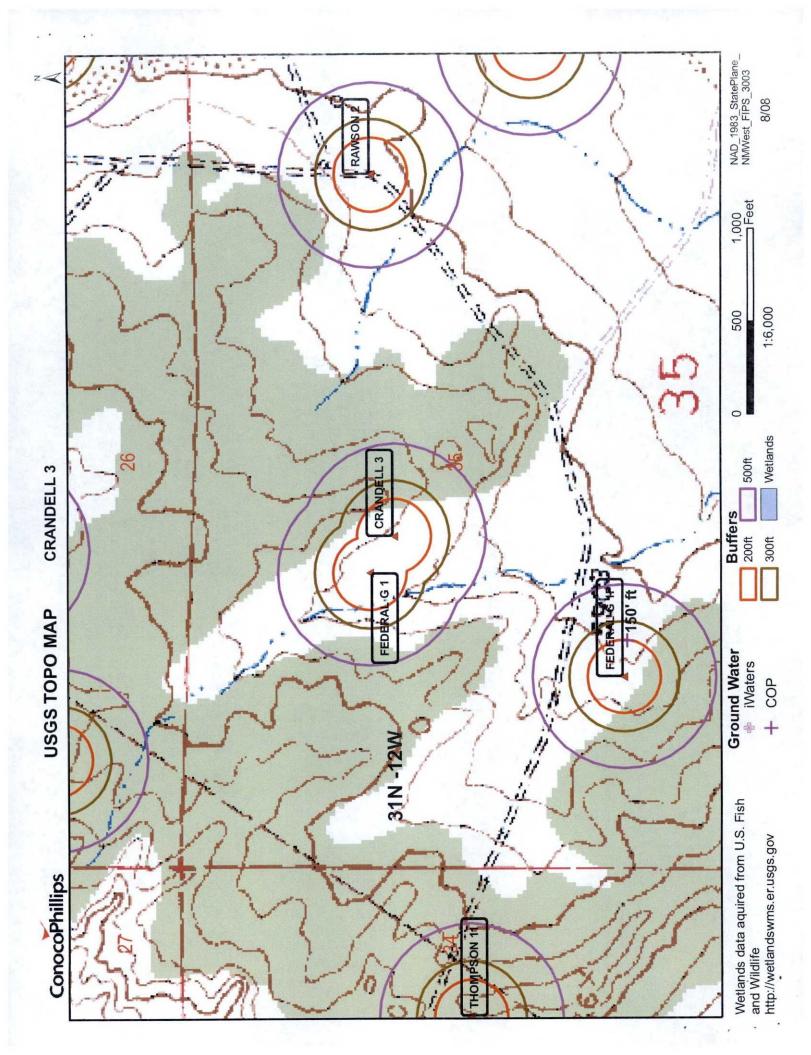
New Mexico Office of the State Engineer POD Reports and Downloads

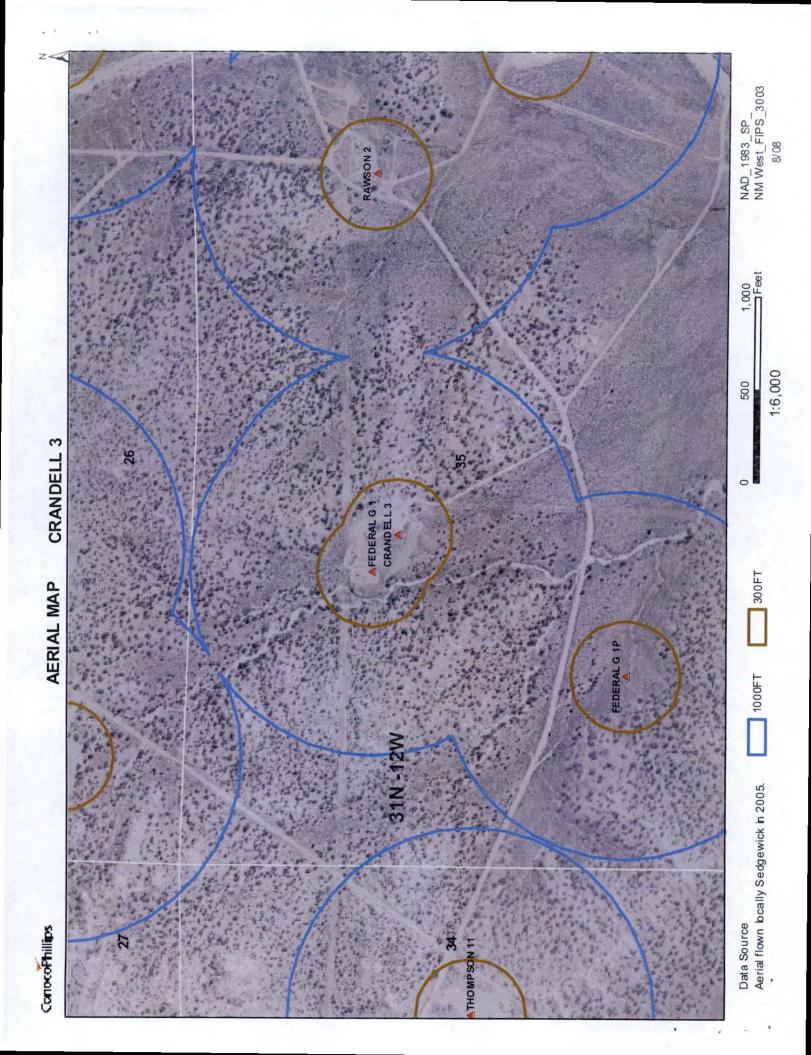
	NAD27	X:		Y:	Zone:		Search Radiu	ıs:	
County:			Basin:			Num	nber:	Suffix:	
Owner Na	ame: (Fin	rst)		(Last))	01	Non-Domestic	ODomestic	Al
PC	OD / Surfac	ce Data	Report	A	vg Depth to Water	Report	Wate	er Column Repo	rt

WATER COLUMN REPORT 08/20/2008

	(quarter	s ar	e 1=	MM	4	=NE	3=SW 4=SE)							
	(quarter	s ar	e bi	gg	es	t to	smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Column		
SJ 03488	31N	12W	01	3	3	2				150				
SJ 03738 POD1	31N	12W	01	4	1	3				115	50	65		
SJ 02034	31N	12W	01	4	3					85	55	30		
SJ 03134	31N	12W	01	4	3	2				80	20	60		
SJ 03022	31N	12W	01	4	3	2				490	250	240		
SJ 01660	31N	12W	01	4	3	3				320	275	45		
SJ 01649	31N	12W	01	4	3	4				220	161	59		
SJ 03660	31N	12W	01	4	3	4				70	42	28		
SJ 02099	31N	12W	01	4	4					95				
SJ 02904	31N	12W	08	4	4	4				325	142	183		
SJ 03026	31N	12W	24	4	3	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	2	1	4				245	90	155		
SJ 01303	31N	12W	25	2	2	3				210				
SJ 01180	31N	12W	25	2	2	4				200	120	80		
SJ 00968	31N	12W	25	2	4					170	100	70		
SJ 03204	31N	12W	31	4	3	1				40	20	20		
SJ 02021 X	31N	12W	35	4	2					290	250	40		
SJ 02021	31N	12W	35	4	2					115				
SJ 03309	31N	12W	35	4	4	4				240	210	30		

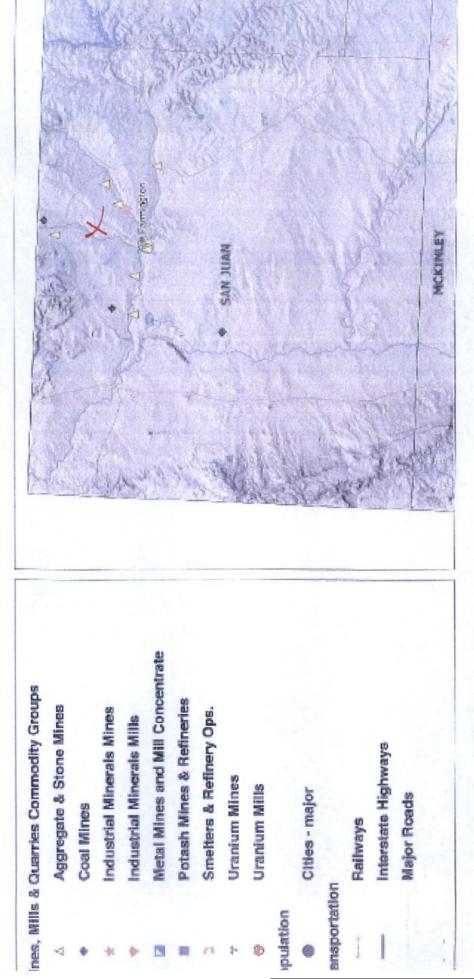
Record Count: 21





Mines, Mills and Quarries Web Map

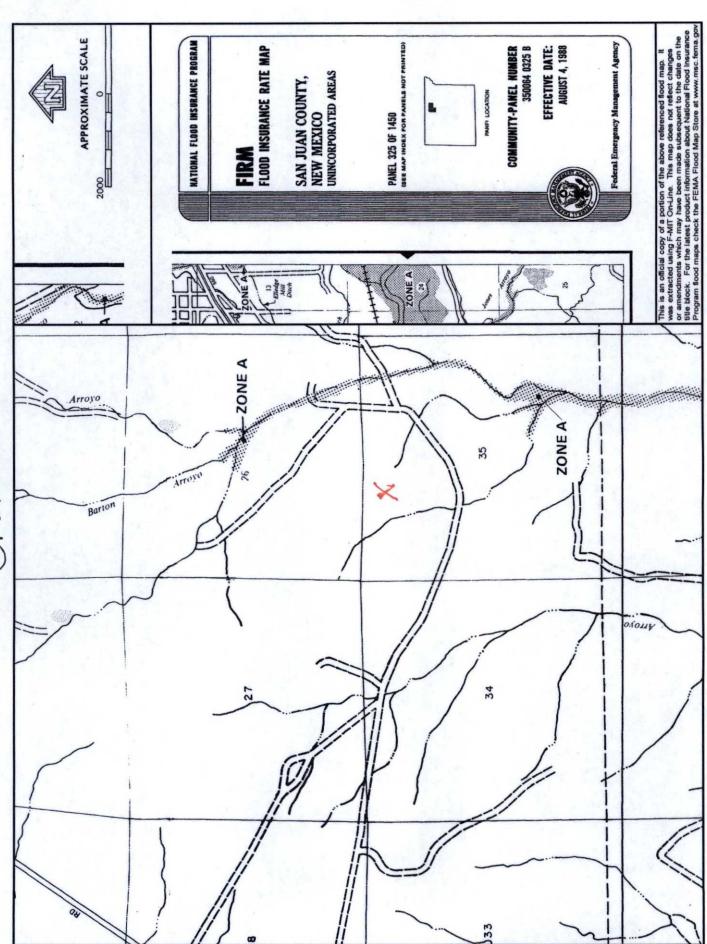
Unit Letter: C, Section: 35, Town: 031N, Range: 012W







Crandell 3



CRANDELL 3

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'CRANDELL 3', which is located at 36.85976 degrees North latitude and 108.07024 degrees West longitude. This location is located on the Flora Vista 7.5' USGS topographic quadrangle. This location is in section 35 of Township 31 North Range 12 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Flora Vista, located 4.8 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 11.5 miles to the southwest (National Atlas). The nearest highway is State Highway 574, located 2.0 miles to the northeast. The location is on BLM land and is 740 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1824 meters or 5982 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 222 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 497 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Barton Arroyo and is 2,572 feet to the east. The nearest water body is named Barton Tank and is 3,613 feet to the south. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 32,487 feet to the south. 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 1,687 feet to the southwest. The nearest wetland is a 0.6 acre other located 3,653 feet to the south. The slope at this location is 4 degrees to the southwest 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 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat 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 7.7 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.

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

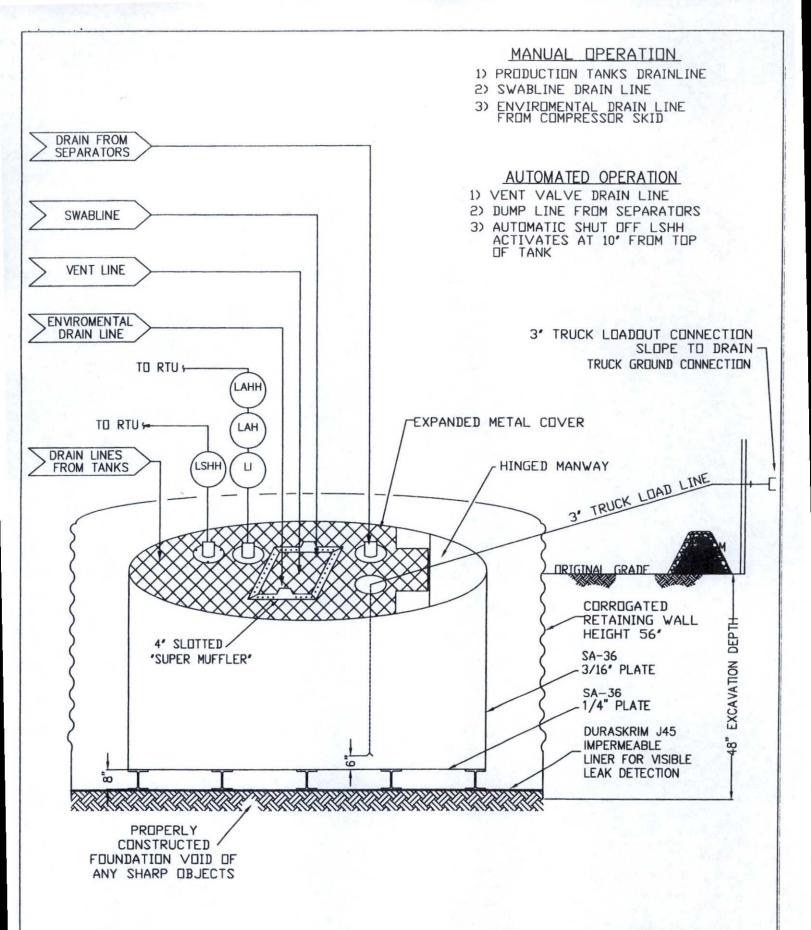
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

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

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



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK

OPEN TOP GRAVITY FLOW TANK

INTERNALLY COATED WITH

12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM® 130,136 & 145

PROPERTIES	TEST METHOD	J3	OBB .	J36	EE HEALTH	J45	is) = Maria
and the second s		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black	k/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	with encapsula	ted tri-direction	al scrim reinford	cement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
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 o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 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.
- 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

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

Signed C-144 (Page 5 of C-144)
Site Specific Hydrogeology
19.15.17.10 Siting requirements
New Mexico Office of State Engineer attachment
USGS TOPO map Aerial Map
Mines, Mills and Quarries Web Map
FIRM map (flood insurance rate map from Federal Emergency Management Agency)
19.15.17.11 Design Plan Contents
Below Grade Tank Design and Construction Plan.
19.15.17.12 Operating and Maintenance Plan
Below Grade Tank Operating and Maintenance Plan
19.15.17.13 Closure Plan
Below Grade Tank Closure Plan
Requirements:
Registration Date: $\frac{2/21/2017}{\mathcal{KC}}$

19.15.17.9 Permit application