<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Ave., Artesia, NM 88210
District III

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.

District IV	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe						
1220 S. St. Francis Dr., Santa Fe, NM 87505		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.						
	Pit, Closed-Loop System, Below-Grad	de Tank, or						
Propos	ed Alternative Method Permit or Closu	re 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								
ivodification to an existing permit								
	Closure plan only submitted for an existing perm below-grade tank, or proposed alternative method	d						
Instructions: Please submit one a	pplication (Form C-144) per individual pit, closed-lo	oop system, below-grade tank or alternative request						
riease be advised that approval o	f this request does not relieve the operator of liability should operations eve the operator of its responsibility to comply with any other applicable	result in pollution of surface water ground water and						
Operator: Burlington Resources Oi		OGRID#: 14538						
Address: PO Box 4289, Farmingto	n, NM 87499	21660						
Facility or well name: MCGRATH	A 1							
API Number:3	004508712 OCD Permit Number	er:						
U/L or Qtr/Qtr: I Sectio	Range.	12W County: San Juan						
Center of Proposed Design: Latitude	36.75238°N Longitude:	-108.07996°W NAD: X 1927 1983						
Surface Owner: Federal	State X Private Tribal Trust or India	n Allotment						
Lined Unlined Lin String-Reinforced Liner Seams: Welded Fac Closed-loop System: Subsection	over	HDPE PVC Other bbl Dimensions Lx Wx D						
Type of Operation: P&A Drying Pad Above Ground Lined Unlined Liner to Liner Seams: Welded Fact	I Steel Tanks Haul-off Bins Other ype: Thickness mil LLDPE HI	activities which require prior approval of a permit or DPE PVD Other						
X Below-grade tank: Subsection I or Volume: 120 bbl Tank Construction material: Secondary containment with leak determined by Secondary Containment with leak d	Type of fluid: Produced Water Metal ction X Visible sidewalls, liner, 6-inch lift and auton Visible sidewalls only Other	natic overflow shut-off specified						
Alternative Method: Submittal of an exception request is require	ed. Exceptions must be submitted to the Santa Fe Environn	nental Bureau office for consideration of approval.						

Form C-144

Oil Conservation Division

12/22/2008

Page 1 of 5



eived by OCD: 9/18/2021 11:56:26 AM	Page 2
Fencing: Subsection D of 19.15.17.11 NMAC (s 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	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	ii, institution or church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
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)	
Signer Submitted Control of the Cont	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
X Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank:	
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner)	consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10	
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.	TVes VINO
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	L NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
(Applied to permanent pits)	Yes No
- 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	Yes XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification man; Topographic man; Visual inspection of the confirmation of the confirmati	Yes X No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NIM FAMILIE.	Yes XNo
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. 	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes XNo
Within a 100-year floodplain	
- FEMA map	Yes X No

Form C-144

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.									
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC									
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9									
X Siting Criteria Compliance Demonstrations - based upon the appropriate a spiritual of Paragraph (2) of Subsection B of 19.15.17.9									
bused upon the appropriate requirements of 19.15.17.10 NMAC									
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC									
oused apoil the appropriate requirements of 19.15.17.12 NMAC									
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC									
Previously Approved Design (attach copy of design) API or Permit									
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API									
Previously Approved Operating and Maintenance Plan API									
13									
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC									
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the sequipment of									
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC									
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC									
Chinatological Pactors Assessment									
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC									
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 10.15.17.11.NAA.C.									
Beatt Selection Besign - based upon the appropriate requirements of 19 15 17 11 NMAC									
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 10.15.17.11.NAA.C									
La Control Quarty Assurance Construction and Installation Plan									
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC									
Trectoral and Overlopping Prevention Plan - based upon the appropriate requirements of 10.15.17.11 NAA-C									
Nuisance of Mazardous Odors, including H2S, Prevention Plan									
Emergency Response Plan									
Oil Field Waste Stream Characterization									
Monitoring and Inspection Plan									
Erosion Control Plan									
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC									
14									
Proposed Closure: 19.15.17.13 NMAC									
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. [Special Content of the Content of the Proposed Content of the Proposed Closure plan.									
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System									
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)									
Waste Removal (Closed-loop systems only)									
On-site Closure Method (only for temporary pits and closed-loop systems)									
In-place Burial On-site Trench									
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)									
5									
Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13.NMAC)									
lease indicate, by a check mark in the box, that the documents are attached. [V] Protocole and Proceedings have been been been been been been been be									
Y 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 10 15 17 12 20 20 20									
and I critically reality and remaining fluids and drill outlings.									
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC									
1 Ke-vegetation Figure 1 based upon the appropriate requirements of Subsection Lot 19 15 17 13 NMAC									
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									
S. MARINIS HINAC									

16		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	1 Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC fluids and drill cuttings. Use attachment if more than to	C) vo facilities
Disposal Facility Name:	Disposal Facility Permit #	
Disposal Facility Name:	Disposal Facility Permit #: Disposal Facility Permit #-	
Yes (If yes, please provide the information No	occur on or in areas that will not be used for futur	e service and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsect Site Reclamation Plan - based upon the appropriate requirements of Subsect	ion Lot 10 15 17 12 NIMAC	IAC
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recertain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required.	commendations of acceptable source material are provided b may be considered an exception which must be submitted to t Please refer to 19.15.17.10 NMAC for guidance.	elow. Requests regarding changes to 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 obtain	ed from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	d from nearby wells	□ N/A
Ground water is more than 100 feet below the bottom of the buried waste.		☐Yes ☐No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtaine		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significan (measured from the ordinary high-water mark).	t 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 exist - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	stence at the time of initial application.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than fi purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence - NM Office of the State Engineer - iWATERS database; Visual inspection (certification within incorporated municipal benefit of the state of	ive households use for domestic or stock watering e at the time of the initial application.	Yes No
pursuant to NMSA 1978, Section 3-27-3, as amended.	ield covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written approval obtained Within 500 feet of a wetland 	d from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	on (certification) of the proposed site	Yes No
within the area overlying a subsurface mine.		∏Yes ∏No
 Written confirantion or verification or map from the NM EMNRD-Mining and Miner Within an unstable area. 	ral Division	
- Engineering measures incorporated into the design; NM Bureau of Geology & Minera Topographic map	l Resources; USGS; NM Geological Society;	Yes No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	e following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requ	airements of 19 15 17 10 NMAC	
1 1001 of Surface Owner Notice - based upon the appropriate requirements of	Subsection F of 19 15 17 13 NMAC	. 201
Construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction/Design Plan of Burial Trench (if applicable) based upon the applicable construction (if applicable) based upon the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable construction (if applicable construction (if applicable construction) and the applicable co	propriate requirements of 19 15 17 11 NIMAG	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pa	d) - based upon the appropriate	15.17.11 NMAC
appropriate requirements of 19.15	.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requ	irements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of S Disposal Facility Name and Permit Number (for liquids, drilling fluids, and the	Subsection F of 19.15.17.13 NMAC	
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and dri ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H	of 19.15.17.13 NACCO	ot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection	of 10 15 17 12 NIMAC	
The printe requirements of Subsection	11 O 01 19.15.17.13 NMAC	

Form C-144

Oil Conservation Division

Page 4 of 5

19			
Operator Application Certification:			
Thereby certify that the information submitted with this applica	ation is true, accurate and complete to	the best of my knowledge and believe	
Name (Print): Crystal Tafoya	Title:	Regulatory Technician	
Signature:	oloma Date:		
e-mail address: crystal tafoya@conocophillip		12/22/2008	
	Telephone:	505-326-9837	
20			1
OCD Approval: Permit Application (including close	ure plan) Closure Plan (onl	y) OCD Conditions (see at	w. t
OCD Representative Signature: CRWhite		Joed Conditions (see at	ttachment)
		Approval Date:	September 30, 2021
Title: Environmental Specialist	OCD Pa	rmit Number: BGT 1	
	ОСБТЕ	rimit Number:	
21			
Closure Report (required within 60 days of closure con	apletion): Subsection K of 19.15.17.13 NM	AC	
			losure report. The closure
report is required to be submitted to the division within 60 days approved closure plan has been obtained and the closure activity	of the completion of the closure activities have been completed	ties. Please do not complete this see	ction of the form until an
	Closu	re Completion Date:	
Closumo Moth - d.			
Closure Method:	_		
Waste Excavation and Removal On-site Clos	ure Method Alternative Closur	re Method Waste Removal (0	Closed-loop systems only)
If different from approved plan, please explain.			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
23			
Closure Report Regarding Waste Removal Closure For Close Instructions: Please identify the facility or facilities for where the	d-loop Systems That Utilize Above (round Steel Tanks or Haul off Di	no Onless
Instructions: Please identify the facility or facilities for where the were utilized.	e liquids, drilling fluids and drill cut	tings were disposed. Use attachme	nt if more than two facilities
Disposal Facility Name:			y more man two factures
Disposal Facility Name:		y Permit Number:	
	Disposal Facility	y Permit Number:	
Were the closed-loop system operations and associated activiti Yes (If yes, please demonstrate compliane to the items be	elow) \square No	ot be used for future service and op	eartions?
Required for impacted areas which will not be used for future			
Site Reclamation (Photo Documentation)	service and operations:		
Soil Backfilling and Cover Installation			
Re-vegetation Application Rates and Seeding Technique			
24			
Closure Report Attachment Checklist: Instructions: Eather box, that the documents are attached.	ch of the following items must be atte	ched to the element pr	
the box, that the documents are attached.	The state of the s	chea to the closure report. Please	indicate, by a check mark 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 applicab			
Waste Material Sampling Analytical Results (if application)	able)		
Disposal Facility Name and Permit Number			
Soil Backfilling and Cover Installation			
Re-vegetation Application Rates and Seeding Technique	ie		
Site Reclamation (Photo Documentation)			
On-site Closure Location: Latitude:	Longitude:	NAD 1	927 🔲 1983
		TAD I	927 1983
5			
Decrator Closure Certification:			
hereby certify that the information and attachments submitted with the closure complies with all applicable closure requirements and co	this closure report is ture, accurate at	nd complete to the best of my knowl	edge and halief 1.
e closure complies with all applicable closure requirements and co	onditions specified in the approved clo	sure plan.	eage una veilej. I also certify that
ame (Print):	Title:		
	I IUC:		
gnature:	Date:		104
mail address:			
man address.	Telephone:		

Form C-144

Oil Conservation Division

Page 5 of 5

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Range: 12W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic C All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

WATER COLUMN REPORT 08/20/2008

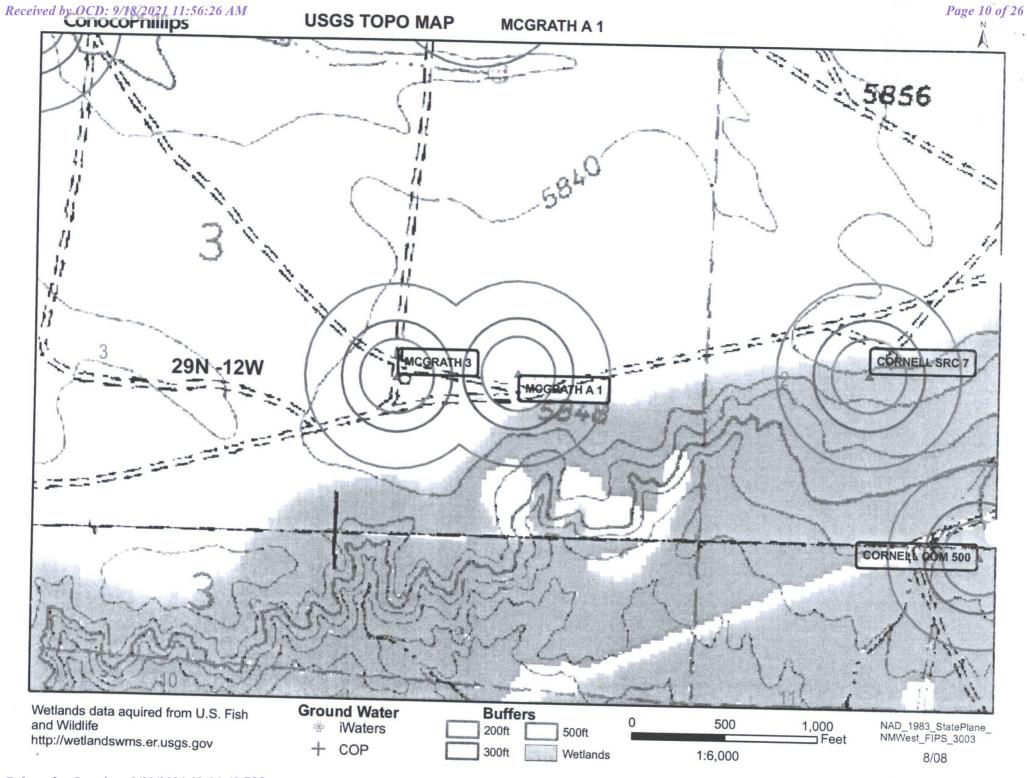
(q	uarter	s are	1:	=NW	2=N	TE 3	3=SW 4	=SE)							
(d.	uarter	s are	b:	igge	est	to	small	est)			Depth	Depth	Water	(:-	feet)
POD Number RG 13104	Tws	Rng	Sec	g	q q	[Zone	x		Y	Well	Water	Column	(III	reet)
RG 42195	_ 29N	12W									70	35	35		
RG 27250	29N	12W			2 2						100	40	60		
RG 36980	29N	12W		1							85	40	45		
RG 42665	29N	12W		1							113	40	73		
SJ 03277	29N	12W									140	105	35		
SJ 01031	29N	12W			2 4						180	120	60		
SJ 01504	29N	12W		2							. 275	172	103		
SJ 02851	29N	12W		2							180	155	25		
	29N	12W			1 1						370	310	60		
SJ 03293 SJ 00881	29N	12W			1 4						68	45	23		
SJ 03528	29N	12W			2 2						137	18	119		
SJ 01894	29N	12W			2 4						21	5	16		
SJ 01385	29N	12W		1							29	28	1		
SJ 03529	29N	12W		1	_						31	4	27		
SJ 03186	29N	12W			4 1						21	5	16		
SJ 01662	29N	12W			4 1						21	8	13		
SJ 00254	29N	12W			3 1						25	8	17		
SJ 03205	29N	12W			3 2						90	26	64		
SJ 01383	29N	12W (3 4						127	118	9		
SJ 00121	29N	12W (1							125	80	45		
SJ 03553	29N	12W (1	-						160	90	70		
SJ 03061	29N	12W (2 2						150		, 0		
SJ 01566 CLW227534	29N	12W (3 :							280	180	100		
SJ 01566	29N	12W (3 :	_						105	60	45		
SJ 01839	29N	12W (3							105	60	45		
SJ 03410	29N	12W 1		1 4							212	175	37		
		12W 1		3 3							75		37		
SJ 00548		12W 1		1 1							180	60	120		
SJ 03414		12W 1		1 1			2	65266	208620	8	25	00	120		
SJ 01510	_	12W 1		1 4							155	75	90		
SJ 03569		12W 1		2 1	. 2						150	, ,	80		
SJ 03370	29N	12W 1	.5	2 2	2						166	86	80		

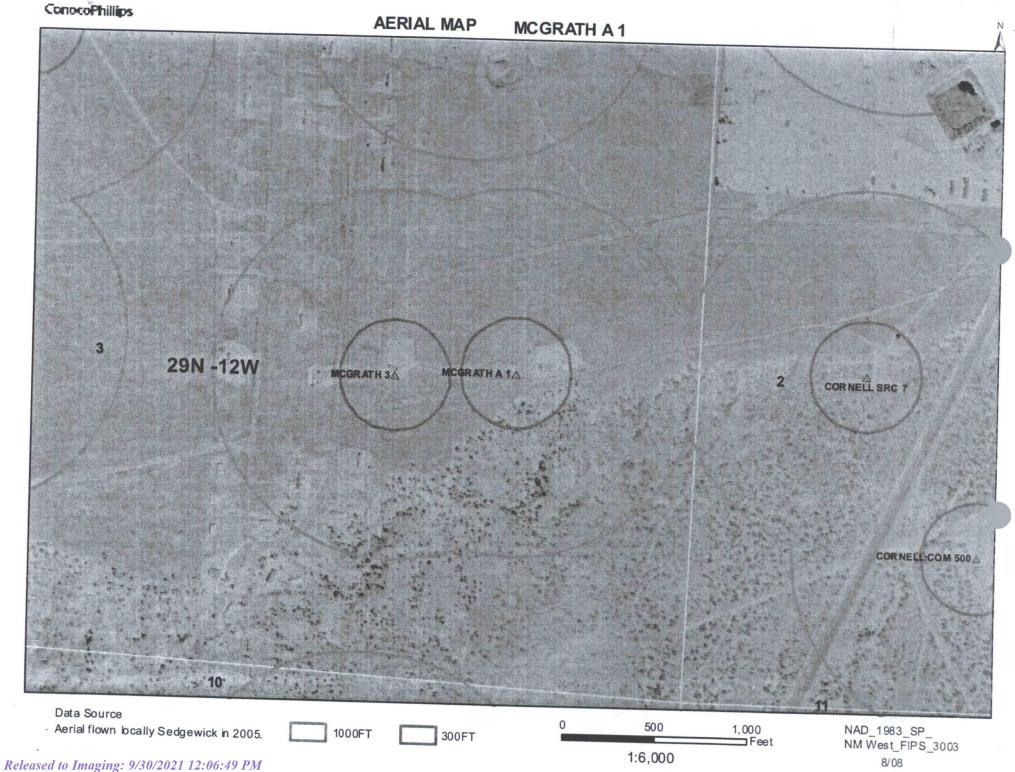
SJ 03388	29N				159	80	79
SJ 02070	29N				21	6	15
SJ 00567	29N				28	28	
SJ 03564	_ 29N				100		
SJ 03563	29N				100		
SJ 00657	_ 29N				85	38	47
SJ 03363	29N				19	3	16
SJ 01070	29N				38	14	24
SJ 03151	_ 29N	12W 19		,	50		27
SJ 03270	29N	12W 19			43	24	19
SJ 03255	29N	12W 19			17	5	12
SJ 00952	_ 29N	12W 19	4 4		76	40	36
SJ 03372	29N	12W 19	4 4 3		10	2	8
SJ 00338	29N	12W 20	3 3 3		28	10	18
SJ 02131 S	_ 29N	12W 22	3 3 2		400		10
SJ 02363	29N	12W 22	4 4		300	185	115
SJ 01597	_ 29N	12W 24	3 2		40	15	25
SJ 02555	29N	12W 24	3 3		21	6	15
SJ 00400	29N	12W 24	3 4		83	35	48
SJ 03735 POD1	_ 29N	12W 24	3 4 1		100	15	85
SJ 03507	29N	12W 24	3 4 1		60		
SJ 03786 POD1	_ 29N	12W 24	3 4 1	265819 2077065	35	11	24
SJ 02082	29N	12W 25	1 1		30	3	27
SJ 00938	_ 29N	12W 25	1 2		80	40	40
SJ 00706	29N	12W 25	1 4		49	20	29
SJ 00652 SJ 01322	29N	12W 25	1 4		42	20	22
SJ 00617	29N	12W 25	1 4		42	20	22
SJ 01466	29N 29N	12W 25	1 4 3		47	20	27
SJ 00570	29N	12W 25	2 4		27	14	13
SJ 03340	29N	12W 25 12W 25	3 1 3 3		36	18	18
SJ 03173	29N	12W 25	3 3 3 3 3 4 2		45	12	33
SJ 03580	29N	12W 25	3 4 4		60	10	50
SJ 00763	29N	12W 25	4 3		20	4	16
SJ 02132	29N	12W 25	4 3 1		60	20	40
SJ 02496	29N	12W 26	1 1 4		· 40	12	28
SJ 03337	29N	12W 26	1 2 2		50	20	15
SJ 03339	29N	12W 26	1 2 2		50		
SJ 03338	29N	12W 26	1 2 2		50		
SJ 00777	29N	12W 26	2 1	. *	47	20	27
SJ 01109	29N	12W 26	2 1 1		100	70	30
SJ 01194	29N	12W 26	2 4		38	12	26
SJ 01954	29N	12W 26	3 1		55	20	35
SJ 01956	29N	12W 26	3 1		50	18	32
SJ 03052	29N	12W 26	3 1 4		29	15	14
SJ 01996	29N	12W 26	3 2		75	17	58
SJ 00112 SJ 01326	29N	12W 26	3 4		47	26	21
SJ 01802	29N	12W 26	4 2		50	27	23
SJ 00399	29N	12W 26	4 2		70	18	52
SJ 01802 POD2	29N 29N	12W 26	4 2 2	0.555.15	45	25	20
SJ 03789 POD1		12W 26	4 2 3	265547 2072216	34	11	23
SJ 03325	29N 29N	12W 26	4 2 3	265592 2072287	40	14	26
SJ 03327	29N	12W 26	4 4 1		45	14	-31
SJ 03104	29N	12W 26 12W 26	4 4 1		95	70	25
SJ 03329	29N	12W 26	4 4 2		50		
SJ 03341	29N	12W 26	4 4 3		40	12	28
SJ 02169	29N	12W 20	4 4 3		50		
SJ 02058	29N	12W 27			36	19	17
	7 7 IV	T 71 / 7 /			60	25	35

,										
SJ 02118	29N	1 12W 27	, 1	1				29	6	0.0
SJ 02131	29N			1 1				80	6	23
SJ 01590	29N			1 3					2.0	
SJ 02654	29N			1 3				63	30	33
SJ 00726	29N			. 3				62	32	30
SJ 03422	29N		1					50	30	20
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SJ 02074	29N	12W 27	2					37	8	29
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SJ 02274	_ 29N	12W 27	2		4			65	30	35
SJ 03394	29N	12W 27	2	-	4			47	22	25
	_ 29N	12W 27	2	4	4			59	15	44
SJ 01700	29N	12W 27	3	_				87	48	39
SJ 00572	29N	12W 27	3					35	28	7
SJ 01728	29N	12W 27	3	1				25	11	14
SJ 01690	29N	12W 27	3	1	1			25	10	15
SJ 00904	_ 29N	12W 27	3	1	1			32	14	18
SJ 00901	29N	12W 27	3		3			32	15	17
SJ 03792 POD1	29N	12W 27	3	3	1	264678	2071912	21	10	11
SJ 03105	29N	12W 27	3	3	2			19	9	10
SJ 02183	29N	12W 27	4	1				40	26	14
SJ 02506	29N	12W 27	4	1	2			44	20	24
SJ 02502	29N	12W 27	4		3			40	20	44
SJ 02640	29N	12W 27	4	1	3			31	18	13
SJ 03376	29N	12W 27	4	1	3			27	13	14
SJ 01133	29N	12W 27	4	1	4			24	7	17
SJ 02969	29N	12W 27	4	1	4			40	•	1/
SJ 01991	29N	12W 27	4	2				50	13	37
SJ 02061	29N	12W 28	4	2				39	23	16
SJ 02047	29N	12W 28	4	2				40	25	15
SJ 02658	29N	12W 28	4		1			42	24	18
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SJ 02299	29N	12W 29	1	1	3			27	7	20
SJ 00799	29N	12W 29	1	1	4			20	8	12 .
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SJ 01431	29N	12W 29	1	1	4			19	7	12
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SJ 03168	29N	12W 29			1			21	10	11
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SJ 02370	29N	12W 29			2			16	5	11
SJ 00711	29N	12W 29	1	2 4	1			20	8	12
SJ 00833	29N	12W 29		3 2				17	9	8
SJ 02497	29N	12W 29	1	3 2	2			17	8	- 9
SJ 02501	29N	12W 29	1	3 2	2			17	17	- 9
SJ 00961	29N	12W 29	1	3 2	2			± 1	Τ /	
SJ 00966	29N	12W 29		3 3				18	2	1 -
SJ 03711 POD1	29N	12W 29		4 1				20	3	15
SJ 01517	29N	12W 30	2						8	12
SJ 01695	29N	12W 30	2					20	8	12
			_ ′	-				13	4	9

SJ 00872	29N	121	v 30	2	2			25	-	
SJ 01442	29N		V 30		2			25	8	17
SJ 01565	29N	120	V 30	2	2			35	6	29
SJ 02875	29N	120	V 30			2		27	4	23
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SJ 01775	29N		34	1				130	50	80
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SJ 03244	29N	12W		3	4	3		60		
SJ 03451	29N	12W		3	4	4		60		
SJ 02638	29N	12W	35	4	1			85	50	35
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SJ 02950	29N	12W	36	4	1	3		38	10	36
SJ 02849	29N	12W	36	4	2	1		40	11	27
SJ 02872	29N	12W	36	4	2	1		15	20	20
SJ 03024	29N	12W	36	4	2	1		38	10	5
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SJ 03007	29N	12W	36	4	2	3		37	20 10	20
SJ 02850	29N	12W		4	2	3		65	10	27
SJ 02338	29N	12W	36	4	3	2		64	40	2.4
SJ 02633	29N	12W	36	4	4	1		85	19	24
								03	13	66

Record Count: 180

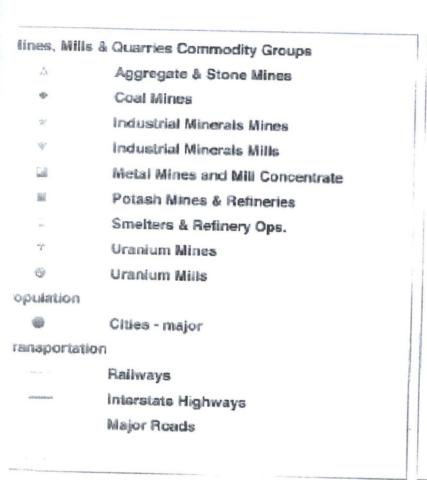


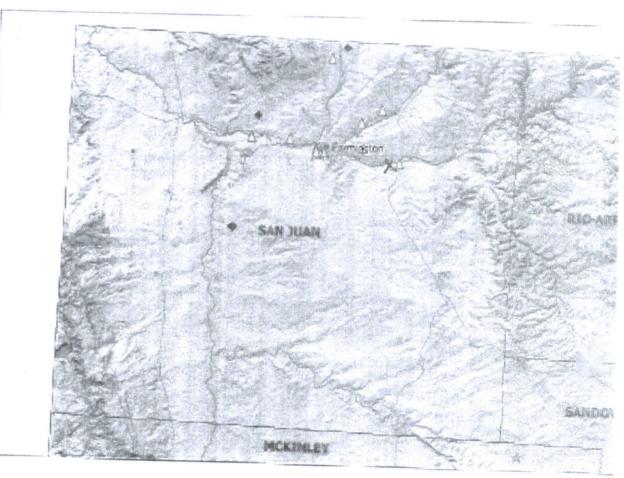


Mines, Mills and Quarries Web Map

MCGRATH A 1

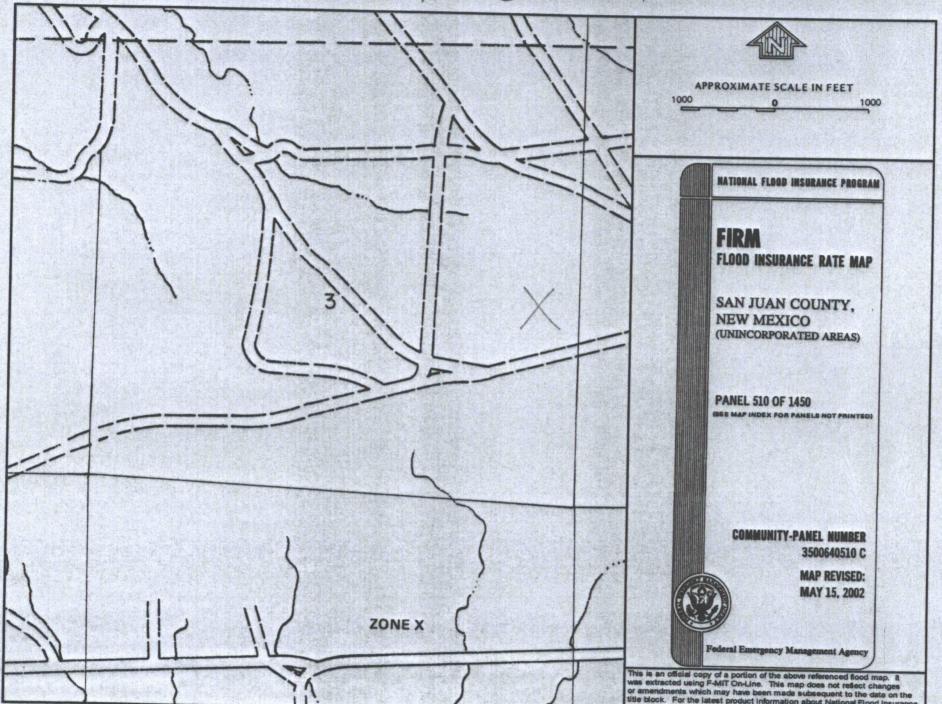
Unit Letter: I, Section: 03, Town: 029N, Range: 012W





SCALE 1: 1,180,363

Mc Grath A #/



MCGRATH A1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MCGRATH A 1', which is located at 36.75238 degrees North latitude and 108.07996 degrees West longitude. This location is located on the Flora Vista 7.5' USGS topographic quadrangle. This location is in section 3 of Township 29 North Range 12 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Flora Vista, located 3.5 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 7.1 miles to the west (National Atlas). The nearest highway is US Highway 550, located 2.9 miles to the northwest. The location is on Private land and is 822 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 1786 meters or 5858 feet above sea level and receives 10 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Greasewood Flat as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 185 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 1,523 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,664 feet to the north. The nearest water body is 1,619 feet to the north. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 11,069 feet to the northwest. 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 3,168 feet to the northeast. The nearest wetland is a 0.5 acre other located 4,000 feet to the southeast. The slope at this location is 1 degree 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 NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Haplargids-Blackston-Torriorthents complex, very steep' 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 10.5 miles to the southwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

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

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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

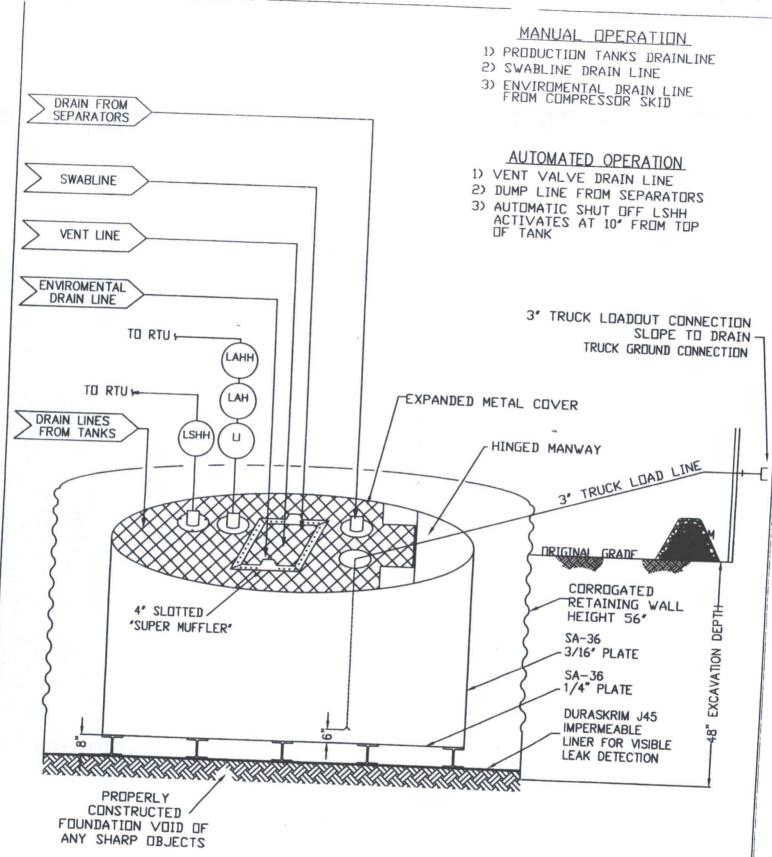
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that 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 "Bage 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 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 a manually operated drain and during normal operations it is in the closed position. The tank drain line is also position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



ConocoPhillips

San Juan Business Unit

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

DUHA-SKRIM®

J30, J36 a J45

PROPERTIES	TEST METHO		130BB	FILL	36BB	14. 15. 15.15.	45BB
Appagrance		Min. Roll Averages	Typical Roll Averages	Alberta Charles and a Salar and a salar	Typical Ro Averages	II Min. Roll	Typical Ro
Appearance		Bla	ck/Black		ck/Black	- I I I I I I I I I I I I I I I I I I I	3-
Thickness	ASTM D 5199	27 mil	30 mil	32 mil			ck/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs	151 lbs	36 mil	40 mil	45 mil
Construction	1		(20.16)	(21.74)	(24.19)	(27.21)	(30.24)
Ply Adhesion	ASTM D 413	10.11	Tusion laminate	ed with encapsu	ated tri-direction	onal scrim reinfo	rcement
	A01WD 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf ME 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD	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	550 DD 20 MD 20 DD	750 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	36 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	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5	<1		160 lbf DD	191 lbf DD
Puncture Resistance	ASTM D 4833	50 lbf			<0.5	<1	<0.5
faximum Use Temperature			64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
linimum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
= Machine Direction		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

MD = Machine Direction DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

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**

08/06

RAVEN

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

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 replacement of replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs

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.
- 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 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, 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
- 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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 49928

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	49928
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.	
Facility or Site Name	Not answered.
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Not answered.
Well API, if associated with a well	Not answered.
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	Not answered.
Type of Fluid	Not answered.
Pit / Tank Construction Material	Not answered.
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	Not answered.
Tank installed prior to June 18. 2008	Not answered.
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, 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, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	Not answered.

Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	Not answered.

Signs

Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	Not answered.

Variances and Exceptions	
Justifications and/or demonstrations ofequivalency 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:	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

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. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Not answered.
NM Office of the State Engineer - iWATERS database search	Not answered.
USGS	Not answered.
Data obtained from nearby wells	Not answered.

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	Not answered.
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.

Proposed Closure Method	
Below-grade Tank Below Grade Tank - (BGT)	
Waste Excavation and Removal	Not answered.
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	Not answered.

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ACKNOWLEDGMENTS

Action 49928

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1111 Travis Street	Action Number:
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	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

<u>~</u>	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
V	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

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CONDITIONS

Action 49928

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CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/30/2021