District 1

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

State of New Mexico Energy Minerals and Natural Resources

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

July 21, 2008

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

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.

1220 S. St. Francis Dr., Santa Fe, NM 87505	appropriate NMOCD District Office.								
	Pit, Closed-Loop System, Below-Grade Tank, or								
Propos	ed 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								
BGT 1 Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method									
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request									
Please be advised that approval or environment. Nor does approval relia	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	ı, NM 87499								
Facility or well name: HUDSON 3									
API Number:3	004508507 OCD Permit Number:								
U/L or Qtr/Qtr: L Section Center of Proposed Design: Latitude: Surface Owner: X Federal	Kange Zvv County. San Juan								
Lined Unlined Lin String-Reinforced									
Type of Operation: P&A Drying Pad Above GrounLined Unlined Liner	on H of 19.15.17.11 NMAC Drilling a new well								
X Below-grade tank: Subsection I of Volume: 120 bb Tank Construction material: Secondary containment with leak dete Visible sidewalls and liner Liner Type: Thickness	Metal								
Alternative Method: Submittal of an exception request is requi	ired. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								

Form C-144

Oil Conservation Division

Page 1 of 5

Fencing: Subsection D of 19.15.17.11 NMAC (vio permanent pit, temporary pits, and below grade tanks)		Page
[]		
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	mstitution or .	hur h)
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.		
Netting: Subsection F of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for a (Fencing/BGT Liner)	consideration of	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of 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		
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Temporary Pits, Emergency Pits and Be.	
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 19.15.17.11 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	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: 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) Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan Please indicate, by a check mark in the box, that the documents are attached. X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requ	1.

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On Conservation Division

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bin Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings, are required.	Use attachment if more than two facilities	
Disposal Facility Name: Disposal Facility Perm	nit #:	
Disposal Facility Name: Disposal Facility Pern	nit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas the Yes (If yes, please provide the information No	nat will not be used for future service ar	nd operations?
Required for impacted areas which will not be used for future service and operations: Soul Back fill and Cover Design Specification, bear design to be a design bear design.		
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Sub Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 N	section H of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropraite requirements of Subsection G of 19.15.17.1	3 NMAC	
17		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC lustructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptan suring criteria may require administrative approval from the appropriate district office or may be considered an exceptor consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.1	acceptioner radio de manage la contracta de la	ats regarding changes to Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells		N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		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 obtained from nearby wells		N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed (measured from the ordinary high-water mark).	I. sinkhole, or playa lake	Yes No
Topographic map: Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial visual inspection (certification) of the proposed site; Aerial photo; satellite image	al application.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for d purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initia - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	al application.	es No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	inicipal ordinance adopted Y	es No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the p	□Y0	es No
Within the area overlying a subsurface mine.		
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	Y	es [No
Within an unstable area. Fingineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Temperatures	1 Geological Society:	es No
Topographic map Within a 100-year floodplain.	_	
- FEMA map	Ye	es No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items mu by a check mark in the box, that the documents are attached.	st bee attached to the closure plan. Ple	ease indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17	10 NIMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.13	5 17 13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the ap	Oppopriate requirements of 19 15 17 11 2	NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC		
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection	n F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.	17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case	on-site closure standards cannot be achie	eved)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMA	AC C	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 N	MAC	

Form C 144

Name (Print):					
TARREST TARRET.		oith this application is true, accurate later	1577.4		
Signature:	ALIOTAL	stal Fatoya		Regulatory Technician	
e-mail address:	Maria	Lagoyn	Date:	12/22/2008	
e man address.	37.1	S COLOCODIMIDS CON	Telephone:	505-326-9837	
20 OCD Approval: [OCD Representativ		ncluding closure plan)		OCD Conditions (see attachment) otember 8, 2021
Title: Env	ironmental Speci	ialist	OCD Permit	DOT 4	
Instructions: Operators report is required to be	s are required to obtain an submitted to the division v	of closure completion): Subset approved closure plan prior to within 60 days of the completion closure activities have been co	o implementing any closure n of the closure activities. Impleted.	activities and submitting the closure rep Please do not complete this section of th ompletion Date:	ort. The closure e form until an
22					
Closure Method: Waste Excavation If different from	on and Removal [n approved plan, please ex	On-site Closure Method plain.	Alternative Closure Me	thod Waste Removal (Closed-loc	op systems only)
23 Closure Report Regard Instructions: Please ide were utilized. Disposal Facility Na	entify the facility or facilit	sure For Closed-loop Systems ties for where the liquids, drilli	That Utilize Above Ground Ing fluids and drill cuttings Disposal Facility Per	ad Steel Tanks or Haul-off Bins Only: were disposed. Use attachment if more	than two facilities
Disposal Facility Nat	me:		Disposal Facility Per		100
Were the closed-loop	system operations and as	sociated activities performed or	n or in areas that will not be	used for future service and opeartions?	
Yes (If yes, plea	se demonstrate complilane	e to the items below)	No	,	
Required for impacte	d areas which will not be	used for future service and ope	rations:		
	(Photo Documentation) and Cover Installation				
	pplication Rates and Seedi	ing Technique			
4		Control of Fall Cal Cal			
the box, that the doct	iments are attached.		ring items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the docu-	e Notice (surface owner	and division)	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N	e Notice (surface owner Notice (required for on-s	and division)	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or	e Notice (surface owner Notice (required for on-s n-site closures and tempor	and division) site closure) sorary pits)	ing ilems must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S:	e Notice (surface owner Notice (required for on-s n-site closures and tempo ampling Analytical Resu	and division) site closure) sorary pits) ults (if applicable)	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation St Waste Material	e Notice (surface owner Notice (required for on-s n-site closures and temp ampling Analytical Resu Sampling Analytical Resu	and division) site closure) sorary pits) ults (if applicable) ssults (if applicable)	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the docu Proof of Closur Proof of Deed N Plot Plan (for or Confirmation Si Waste Material Disposal Facility	e Notice (surface owner Notice (required for on-s n-site closures and tempo ampling Analytical Resu Sampling Analytical Resu y Name and Permit Nun	and division) site closure) sorary pits) ults (if applicable) ssults (if applicable)	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the docu Proof of Closur Proof of Deed N Plot Plan (for or Confirmation Si Waste Material Disposal Facility Soil Backfilling	e Notice (surface owner Notice (required for on-s n-site closures and temperampling Analytical Resurve Name and Permit Nun and Cover Installation	and division) site closure) sorary pits) ults (if applicable) sults (if applicable) mber	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S Waste Material Disposal Facility Soil Backfilling Re-vegetation A	e Notice (surface owner Notice (required for on-s n-site closures and temperampling Analytical Resurbling Analytical Resurption of Permit Nun and Cover Installation pplication Rates and Section 1986.	and division) site closure) sorary pits) alts (if applicable) sults (if applicable) mber	ing items must be attached	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S: Waste Material Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation	e Notice (surface owner Notice (required for on-s n-site closures and temp ampling Analytical Resu Sampling Analytical Resu y Name and Permit Nun and Cover Installation and (Photo Documentation	and division) site closure) sorary pits) alts (if applicable) sults (if applicable) mber			
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S Waste Material Disposal Facility Soil Backfilling Re-vegetation A	e Notice (surface owner Notice (required for on-s n-site closures and temp ampling Analytical Resu Sampling Analytical Resu y Name and Permit Nun and Cover Installation application Rates and Sec n (Photo Documentation	and division) site closure) sorary pits) alts (if applicable) sults (if applicable) mber	Longitude:	to the closure report. Please indicate,	by a check mark in
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S Waste Material Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure	e Notice (surface owner Notice (required for on-s n-site closures and temp ampling Analytical Resu Sampling Analytical Resu y Name and Permit Nun and Cover Installation and (Photo Documentation	and division) site closure) sorary pits) alts (if applicable) sults (if applicable) mber			
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S: Waste Material Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure	e Notice (surface owner Notice (required for on-s n-site closures and temperampling Analytical Resurband Analytical Resurband Cover Installation and Cover Installation Location: Latitude: tification:	and division) site closure) sorary pits) ults (if applicable) esults (if applicable) mber edding Technique	Longitude:	NAD 1927	1983
Closure Report At the box, that the docu Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S: Waste Material Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure	e Notice (surface owner Notice (required for on-s n-site closures and temperampling Analytical Resurband Analytical Resurband Cover Installation and Cover Installation Location: Latitude: tification:	and division) site closure) sorary pits) ults (if applicable) sults (if applicable) mber edding Technique n)	Longitude:	NAD 1927	1983
Closure Report At the box, that the doct Proof of Closur Proof of Deed N Plot Plan (for or Confirmation S: Waste Material Disposal Facility Soil Backfilling Re-vegetation A Site Reclamation On-site Closure Perator Closure Cerereby certify that the interclosure complies with	e Notice (surface owner Notice (required for on-s n-site closures and temperampling Analytical Resurband Analytical Resurband Cover Installation and Cover Installation Location: Latitude: tification:	and division) site closure) sorary pits) ults (if applicable) sults (if applicable) mber edding Technique n)	Longitude: port is ture, accurate and coffied in the approved closure	NAD 1927	1983

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Oil Conservation Division

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New Mexico Office of the State Engineer POD Reports and Downloads

	Town	ship:	29N	Range:	12W	Sections:					
NA	D27	X:		Y:		Zone:			Search Radius	s:	
County:			Basin	:				Num	ber:	Suffix:	
Owner Name:	(Firs	st)			(Last)			0	Non-Domestic	O Domestic	All
POD / Surface Data Report Avg Depth to Water Report Water Column Report											
Clear Form iWATERS Menu Help											

(quarters are 1=NW 2=NE 3=SW 4=SE)

WATER COLUMN REPORT 12/11/2008

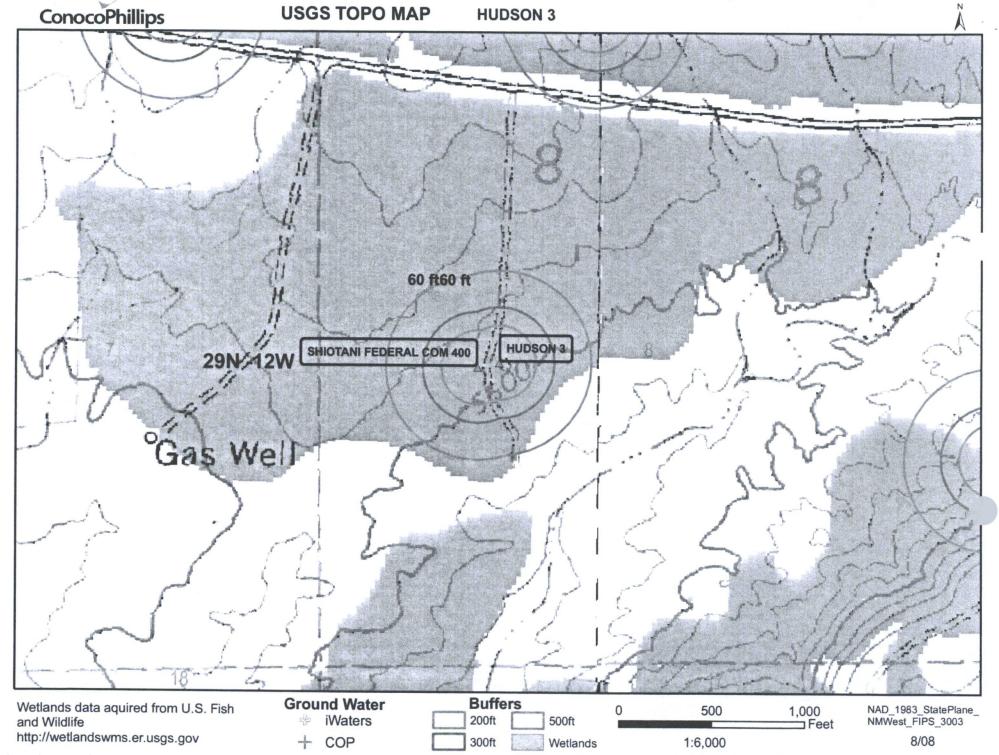
(qu	arter	s are	e bi	gg	est	t to	smallest	=)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	g	Zone	x		Y	Well	Water	Column	
RG 13104	29N	12W		1	4						70	35	35	
RG 42195	29N	12W	01	2	2	2					100	40	60	
RG 27250	29N	12W		1							85	40	45	
RG 36980	29N	12W	02	1							113	40	73	
RG 42665	29N	12W	13								140	105	35	
SJ 03277	29N	12W	01	1	2	4					180	120	60	
SJ 01031	29N	12W	04	2	1						275	172	103	
SJ 01504	29N	12W	04	2	1						180	155	25	
SJ 02851	29N	12W	04	2	1	1					370	310	60	
SJ 03293	29N	12W	05	1	1	4					68	45	23	
SJ 00881	29N	12W	06	1	2	2					137	18	119	
SJ 03528	29N	12W	06	1	2	4					21	5	16	
SJ 01894	29N	12W		1	3						29	28	1	
SJ 01385	29N	12W	06	1	3	4					31	4	27	
SJ 03529	29N	12W		1	4	1					21	5	16	
SJ 03186	29N	12W	06	2	4	1					21	8	13	
SJ 01662	29N	12W	06	3	3	1					25	8	17	
SJ 00254	29N	12W		3	3	2					90	26	64	
SJ 03205	29N	12W		3	3	4					127	118	9	
SJ 01383	29N	12W		1							125	80	45	
SJ 00121	29N	12W		1							160	90	70	
SJ 03553	29N	12W		1	2	2					150			
SJ 03061	29N	12W		3	1	2					280	180	100	
SJ 01566 CLW227534	29N	12W		3	1	2					105	60	45	
SJ 01566	29N	12W	08	3	1	3					105	60	45	
SJ 01839	29N	12W	10	1	4						212	175	37	
SJ 03410	29N	12W	11	3	3	4					75			
SJ 00548	29N	12W	14	1	1						180	60	120	
SJ 03414	29N	12W	14	1	1	2	265	266	208620	8	25			
SJ 01510	29N	12W	15	1	4	3					155	75	80	
SJ 03569	29N	12W	15	2	1	2					150			
SJ 03370	29N	12W	15	2	2	2					166	86	80	

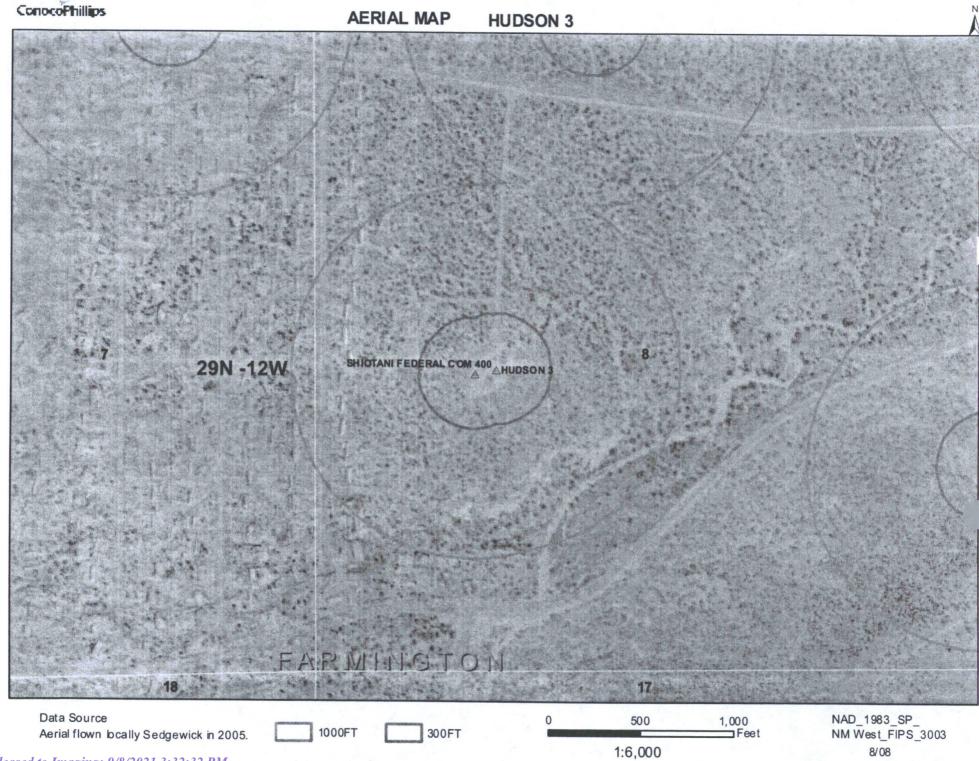
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SJ 02070	29N	12W 19	3	3	4			21	6	15
SJ 00567	29N	12W 19	3		4			28	28	
SJ 03564	29N	12W 19	4	1	3			100		
SJ 03563	29N	12W 19	4	1	3			100		
SJ 00657	29N	12W 19	4	1	4			85	38	47
SJ 03363	29N	12W 19	4	3				19	3	16
SJ 01070	29N	12W 19	4	3	1			38	14	24
SJ 03151	29N	12W 19	4	3	1			50		
SJ 03270	29N	12W 19	4	3	2			43	24	19
SJ 03255	29N	12W 19	4	3				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			28	10	18
SJ 02131 S	29N	12W 22	3					400	10	10
SJ 02363	29N	12W 22	4	4	2.3			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	13	03
SJ 03786 POD1	29N	12W 24	3	4	1	265819	2077065	35	11	24
SJ 02082	29N	12W 25	1		_	203019	2011005	30	3	27
SJ 00938	29N	12W 25	1					80	40	40
SJ 00706	29N	12W 25	1					49	20	29
SJ 00652	29N	12W 25	1	4				42	20	22
SJ 01322	29N	12W 25	1	4				42	20	22
SJ 00617	29N	12W 25	1	4	3			47	20	27
SJ 01466	29N	12W 25	2	4)			27	14	13
SJ 00570	29N	12W 25	3	1				36	18	18
SJ 03340	29N	12W 25	3	3	3			45	12	33
SJ 03173	29N	12W 25	3	4	2			60	10	50
SJ 03580	29N	12W 25	3	4	4			20		16
SJ 00763	29N	12W 25	4	3	4			60	20	40
SJ 02132	29N	12W 25	4	3	1			40	12	28
SJ 02496	29N	12W 26	1	1	4			35	20	15
SJ 03337	29N	12W 26	1	2	2			50	20	13
SJ 03339	29N	12W 26	1	2	2			50		
SJ 03338	29N	12W 26		2				50		
SJ 00777	29N	12W 26		1	4			47	20	27
SJ 01109	29N	12W 26		1	1			100	70	30
SJ 01194	29N	12W 26		4	_			38	12	26
SJ 01954	29N	12W 26		1				55	20	35
SJ 01956	29N	12W 26		1				50	18	32
SJ 03052	29N	12W 26		1	4			29	15	14
SJ 01996	29N	12W 26	3					75	17	58
SJ 00112	29N	12W 26		4				47	26	21
SJ 01326	29N	12W 26		2				50	27	23
SJ 01802	29N	12W 26		2				70	18	52
SJ 00399	29N	12W 26	4	2	2			45	25	20
SJ 01802 POD2	29N	12W 26	4	2		265547	2072216	34	11	23
SJ 03789 POD1	29N	12W 26	4	2		265592		40	14	26
SJ 03325	29N	12W 26	4	4		200002	20/220/	45	14	31
SJ 03327	29N	12W 26	4	4				95	70	25
SJ 03104	29N	12W 26	4	4				50	7 0	45
SJ 03329	29N	12W 26	4	4				40	12	28
SJ 03341	29N	12W 26		4				50	14	40
SJ 02169	29N	12W 20	4	4	J			36	1.0	17
SJ 02058	29N	12W 27							19	17
50 02030	2 J I V	TZAA Z						60	25	35

SJ 02118	29N	12W 27	1						29	6	23
SJ 02131	29N	12W 27	1	1					80		
SJ 01590	29N	12W 27	1	3					63	30	33
SJ 02654	29N	12W 27	1	3	1				62	32	30
SJ 00726	29N	12W 27	1	3	1				50	30	20
SJ 03422	29N	12W 27	1	3	2				41	31	10
SJ 01008	29N	12W 27	1	3	3				51	20	31
SJ 00827	29N	12W 27	1	3	3				55	30	25
SJ 01828	29N	12W 27	1	3	4				45	25	20
SJ 02870	29N	12W 27	1	3	4				39	24	15
SJ 00666	29N	12W 27		3	4				35	17	
SJ 03384	29N	12W 27		3	4						18
SJ 02041	29N	12W 27	2	3	4				41	30	11
SJ 02074	29N	12W 27	2	3					37	8	29
SJ 01643	29N	12W 27	2	3	4				60	25	35
SJ 02274	29N	12W 27	2	3	4				65 47	30	35
SJ 03394	29N	12W 27	2	4	4					22	25
SJ 01700	29N	12W 27	3	1	4				59	15	44
SJ 00572	29N	12W 27	3						87	48	39
SJ 01728	29N			1					35	28	7
		12W 27 12W 27	3	1	1				25	11	14
SJ 01690	29N			1					25	10	15
SJ 00904	29N	12W 27	3	1	1				32	14	18
SJ 00901	29N	12W 27	3	1	3	0.54.57.0		071010	32	15	17
SJ 03792 POD1	29N	12W 27	3	3	1	264678	3 2	071912	21	10	11
SJ 03105	29N	12W 27	3	3	2				19	9	10
SJ 02183	29N	12W 27	4	1	0				40	26	14
SJ 02506	29N	12W 27	4	1	2				44	20	24
SJ 02502	29N	12W 27	4	1	3				40		
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SJ 03376	29N	12W 27		1					27	13	14
SJ 01133	29N	12W 27	4	1	4				24	7	17
SJ 02969	29N	12W 27		1	4				40		
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			1				42	24	18
SJ 02864	29N	12W 28		2	2				50		
SJ 02228	29N	12W 29	1		-				19	8	11
SJ 02299	29N	12W 29							27	7	20
SJ 00799	29N	12W 29		1					20	8	12
SJ 00786	29N	12W 29			4				21	8	13
SJ 00842	29N	12W 29		1					15	5	10
SJ 01431	29N	12W 29		1					19	7	12
SJ 03171	29N	12W 29		2					21	10	11
SJ 03167	29N	12W 29		2					21	10	11
SJ 03170	29N	12W 29	1						21	10	11
SJ 03168	29N	12W 29		2					21	10	11
SJ 03169	29N	12W 29		2					21	10	11
SJ 03634	29N	12W 29			2				18	10	8
SJ 02370	29N	12W 29			2				16	5	11
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SJ 00833	29N	12W 29		3					17	9	8
SJ 02497	29N	12W 29		3					17	8	9
SJ 02501	29N	12W 29		3					17	17	
SJ 00961	29N	12W 29		3							
SJ 00966	29N	12W 29		3					18	3	15
SJ 03711 POD1	29N	12W 29		4	1				20	8	12
SJ 01517	29N	12W 30	2	1					20	8	12
SJ 01695	29N	12W 30	2	2					13	4	9

SJ 00872	29N	12W	30	2	2		25	8	17
SJ 01442	29N	12W	30	2	2		35	6	29
SJ 01565	29N	12W	30	2	2		27	4	23
SJ 02875	29N	12W	30	2	2	2	35		
SJ 01677	29N	12W	33	2			51	35	16
SJ 02973	29N	12W	33	2	1	2	130	50	80
SJ 01775	29N	12W	34	1	1		15		
SJ 03312	29N	12W	34	2	1	4	13	2	11
SJ 03405	29N	12W	35	2	1		54	16	38
SJ 03501	29N	12W	35	2	4	4	20	6	14
SJ 03509	29N	12W	35	2	4	4	50		
SJ 03537	29N	12W	35	3	1	3	35	10	25
SJ 03335	29N	12W	35	3	3	4			
SJ 03244	29N	12W	35	3	4	3	60		
SJ 03451	29N	12W	35	3	4	4	85	50	35
SJ 02638	29N	12W	35	4	1	1	21	4	17
SJ 03192	29N	12W	36	1	3	1	50		
SJ 02830	29N	12W	36	1	4	1	50		50
SJ 03299	29N	12W	36	2	4	3	20		
SJ 03686 POD1	29N	12W	36	2	4	3	41	21	20
SJ 03439	29N	12W	36	3	2	4	46	10	36
SJ 02950	29N	12W		4	1	3	38	11	27
SJ 02849	29N	12W		4	2	1	40	20	20
SJ 02872	29N	12W		4	2	1	15	10	5
SJ 03024	29N	12W		4	2	1	38	18	20
SJ 03011	29N	12W	36	4	2	1	40	20	20
SJ 03007	29N	12W	36	4	2	3	37	10	27
SJ 02850	29N	12W	36	4	2	3	65		
SJ 02338	29N	12W	36	4	3	2	64	40	24
SJ 02633	29N	12W	36	4	4	1	85	19	66

Record Count: 180

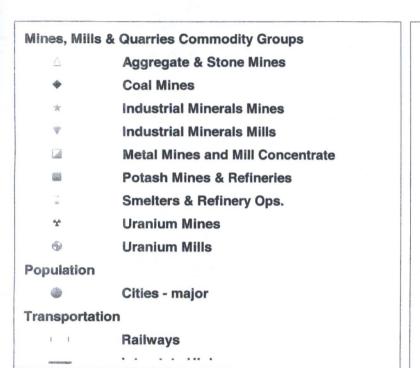


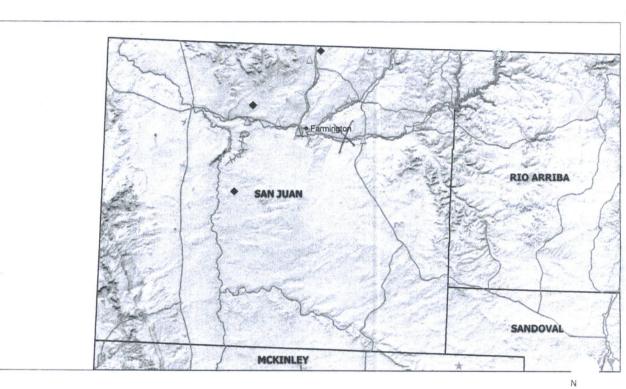


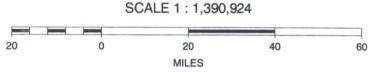
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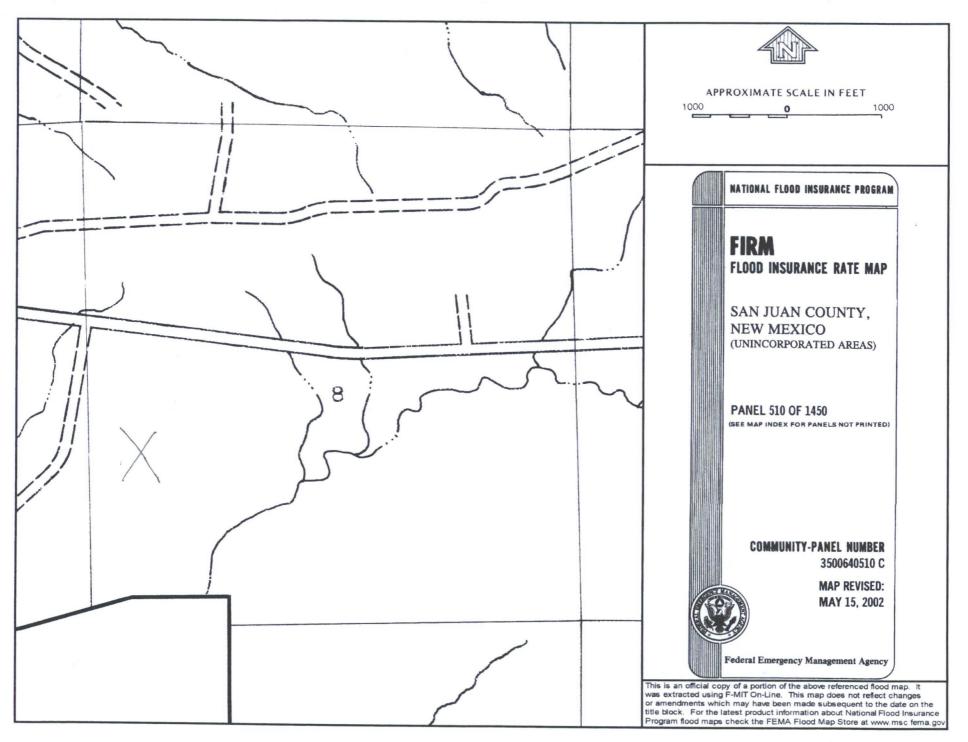
Hudson 3











HUDSON 3

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUDSON 3', which is located at 36.73853 degree North latitude and 108.12679 degree West longitude. This location is located on the Farmington South 7.5' USGS topographic quadrangle. This location is in section 8 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 Farmington, located 4.4 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 4.4 miles to the west (National Atlas). The nearest highway is US Highway 550, located 1.9 miles to the northwest. The location is on Private land and is 305 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1711 meters or 5612 feet above sea level and receives 9.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 36 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 688 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,304 feet to the east. The nearest water body is 2,585 feet to the north. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 14,749 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 865 feet to the west. The nearest wetland is a 0.4 acre Freshwater Forested/Shrub Wetland located 6,889 feet to the northwest. The slope at this location is 2 degree to the southeast 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 'Fruitland-Persayo-Sheppard complex, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 7.7 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.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 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.

MANUAL OPERATION 1) PRODUCTION TANKS DRAINLINE 2) SWABLINE DRAIN LINE 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID DRAIN FROM SEPARATORS AUTOMATED OPERATION 1) VENT VALVE DRAIN LINE SWABLINE 2) DUMP LINE FROM SEPARATORS 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10' FROM TOP VENT LINE ENVIROMENTAL DRAIN LINE 3" TRUCK LOADOUT CONNECTION SLOPE TO DRAIN TO RTU + TRUCK GROUND CONNECTION LAHH TO RTU 5 EXPANDED METAL COVER DRAIN LINES FROM TANKS LSHH HINGED MANWAY 3" TRUCK LUAD LINE DRIGINAL GRADE CORROGATED RETAINING WALL 4" SLOTTED HEIGHT 56' 'SUPER MUFFLER' SA-36 3/16' PLATE SA-36 1/4" PLATE DURASKRIM J45 **IMPERMEABLE** ထ LINER FOR VISIBLE LEAK DETECTION PROPERLY CONSTRUCTED . FOUNDATION VOID OF ANY SHARP DBJECTS

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 a 145

PROPERTIES	TEST METHOD		130BB'	J	36BE		45BB
Anna		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	And the second second	Typical Re Averages
Appearance		Bla	ck/Black	Blac	ck/Black		ck/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs	189 lbs	45 mil 210 lbs
Construction		**Ex			(24.19)	(27.21)	(30.24)
Ply Adhesion	ASTM D 413	10 11	T T T T T T T T T T T T T T T T T T T	d with encapsu	lated tri-direction	nal scrim reinfo	rcement
	A01141D 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 Mt
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
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 Teas	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		
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf			<1	<0.5
faximum Use Temperature				65 lbf	83 lbf	80 lbf	99 lbf
linimum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
D = 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 elections 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 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 replacement of replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

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

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

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

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

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

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

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

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

General Plan:

- 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 twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of f19.15.17.11 NMAC within five years, if NMAC; b) permitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 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; or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater.
- If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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

<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 44131

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	44131
	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 tank	s)
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 Please check a box if one or more of the following is requested, if not leave blank:	guidance.
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 44131

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

ACKNOWLEDGMENTS

V	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 44131

CONDITIONS

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1111 Travis Street	Action Number:
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CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/8/2021