ived by OCD: 9/11/2021 7:49:31 A	М	Page 1
District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-144
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	Department Oil Conservation Division 1220 South St. Francis Dr	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
1220 S. St. Francis Dr., Santa Fe, NM 87505	Pit Closed Level 2 1	appropriate NMOCD District Office.
Propos	ed Alternative Method Permit or Closur	e Tank, or
Tyme of estimate		e Flan Application
Type of action:	Permit of a pit, closed-loop system, below-grade ta	ank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade t	tank, or proposed alternative method
BGL1	Modification to an existing permit	
	Closure plan only submitted for an existing permitted below-grade tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one a	pplication (Form C-144) per individual pit closed loo	n sustan balan and the literation
Please be advised that approval of	this request does not relieve the operator of liability should operations re-	sult in pollution of surface water, around water or the
environment. Nor does approval relie	eve the operator of its responsibility to comply with any other applicable g	overnmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources Oil	& Gas Company I P	00000
Address: PO Box 4289, Farmingto	n. NM 87499	OGRID#: 14538
Facility or well name: SAN JUAN 3	0-6 UNIT 419S	
API Number: 30	03929438	
U/L or Otr/Otr: I Sectio	OCD Permit Number:	
Center of Proposed Design: Latitude	26 92449N Range:	W County: Rio Arriba
Surface Owner: X Endernl	Longitude:	-107.53649°W NAD: X 1927 1983
Temporary: Drilling Workd Permanent Emergency Ca Lined Unlined Line String-Reinforced Liner Seams: Welded Fac	over vitation P&A er type: Thickness mil LLDPE Hi tory Other Volume:t	DPE         PVC         Other           obl         Dimensions L         x W         x D
3       Closed-loop System:       Subsection         Type of Operation:       P&A       Image: Subsection         Image: Drying Pad       Above Ground       Above Ground         Image: Lined       Unlined       Liner to Liner t	n H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to ac notice of intent) Steel Tanks Haul-off Bins Other ype: Thickness mil LLDPE HDF ory Other	tivities which require prior approval of a permit or PE PVD Other
4         X       Below-grade tank:       Subsection I or         Volume:       120       bbl         Tank Construction material:	f 19.15.17.11 NMAC Type of fluid: <b>Produced Water</b> <b>Metal</b> ction X Visible sidewalls, liner, 6-inch lift and automa Visible sidewalls only Other _mil HDPE PVC X Other Unsp	tic overflow shut-off
5 Alternative Method: Submittal of an exception request is require	ed. Exceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.
Form C-144		
	On Conservation Division	12/22/208 Page 1 of 5

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Image: Subsection C of 19.15.17.1 MAAC       Image: Subsection	Fencing: Subsection D of 19.15.17.11 NMAC (		
Chemistrative approaches must be submitted to the Samb Pe Environmental Bureau office for a permanent prisma approaches. school, hospital, instantiana ur claur k0   where the environmental generation of approaches appro			
Low to be highly, four strains of harbed wire early spaced between one and four feet     Adverses Please specify <u>4.1 May wire rendeng topped with two strands harbed wire.     Adverses Please specify <u>4.1 May wire rendeng topped with two strands harbed wire.     Adverses Please specify <u>4.1 May wire rendeng topped with two strands harbed wire.     Adverses State Adverses </u></u></u>	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 c	hurch)
Alternative       Place specify       4 log wire facting negred with two strands harded wire.         Matting:       Subsection to 4 1912.61711 MMAC (hypotes up remnuon pits and permanent pers app says and the strands harded wire.         Straine:       Other	Four foot height, four strands of barbed wire evenly spaced between one and four feet		
Streen S	X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	STATISTICS STOT	1
Streem       Netting       Other         Streem       Netting       Other         Mutually impections (f) netling: or wroning is not physically foculity.         Streem       Streem         Streem       Streem         Streem       Streem         Streem       Streem    Streem    Streem    Streem    Streem       Streem     Notice of 19.15.17.11 NMAC    Streem       Difference     Streem    Streem       Streem     Streem    Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem       Streem     Streem        Streem	Nettine: Subjection F of 1915 1711 NMAC (Applies to approximate at a set	e na tracile, el societto	
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Signer       Subsection C of 19.15.7.11 NMAC         [12: X 32: 2' Statemap, providing Operator's name, site location, and emergency telephone numbers         Signed in compliance with 19.15.10.10 NMAC         Administrative approvales and Exceptions:         Justifications and/or demonstrations of capivalency are required. Please refer to 19.15.17 NMAC for guidance.         Please check a box if one or more of the following in required. If the approximate division district of the Santa Fe Environmental Bureau office for consideration of approval.         (#Concing/BGT Liner)         [Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.         Sting Criteria (regarding permitting): 19.15.17.10 NMAC         Instructions: The application must demonstrate compliance for each sting criteria below in the application.         Reception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.         Within S00 feet of the Santa Fe Environmental Bureau office for guidance. Sitting criteria deal state in the application.         Administrative approvale.       Segmental constrations of approval.         Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.       No         - Tropographic map: Visual inspection (certification) of the proposed site:       Yes: Site Site Site of application.         Applied to mergeners, proceed site: Actial photo; Satellite image       No	Monthly inspections (If netting or screening is not physically feasible)		
Stage:       Subsection C of 19.15.17.11 NMAC         □ 12* 24* 2* Centering, providing Operator's name, site location, and emergency telephone numbers         Systemed in compliance with 19.15.3.03 NMAC         Administrative Approvals and Exception:         Initiations and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.         Plane Ceck a host of one or more of the following is requested. if not come blank:         Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.         State Criteria (regarding permitting): 19.15.17.10 NMAC         Instructions: The applicant must deno sufface for each time criteria below in the application. Recommendations of acceptable source metrical are provided below. Request regarding Administrative approval from the approval from the approval provide to the state Environmental Bureau office for considered and approval.         State Criteria (regarding permitting): 19.15.17.10 NMAC         Chrome dust of files on may be considered an exception which must be submitted to the Sama Fe Environmental Bureau office for considered and approval provide below. Request regarding Administrative Approval from the approval provide to the scena approval permitting is approval provide to the scena permitting is approval provide to the scena approval provide to the scena permitting is approval provide to the scena permitting is approval provide scena acception which must be submitted to the Sama Fe Environmental Bureau office for considered and provide scena approval provide scena acception (scena cochapin scena scena fere in 19.15.7.10 MMAC fo			
□ 12 * X. 3 <sup>2</sup> , 2 <sup>+</sup> lettering, providing Operator's name, site location, and emergency telephone numbers         Signed in compliance with 19.15.1.03 NMAC         Administrative Amproxedua and Exceptions:         Instifications and/or demonstrations of equivalency are required. If not leave blank:         Imagination and/or demonstrations of equivalency are required. If not leave blank:         Imagination and/or demonstrations of equivalency are required. If not leave blank:         Imagination and/or demonstrations of equivalency are required. If not leave blank:         Imagination and/or demonstrations of equivalency are required. If not leave blank:         Imagination and/or demonstrations of equivalency are required. If not leave blank in the exploration district of the Santa Fe Environmental Bureau office for consideration of approval.         Intercentions: The explorent sum demandrum compliance for each stilling criteria below in the explication. Exceense database served: in Signature abaliance approval for equivalence and the explorent. The explorent sum demandrum compliance for each stilling criteria below in the explication. Exceense database associated with a closed-loop system.         Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or boyne grade tanks. <ul> <li>Yes: No</li> <li>NN Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Applied and material material in the leave regrade tanks;</li> <li>NNo Mitter contination or verification of t</li></ul>	Signs: Subsection C of 19.15.17.11 NMAC		
Signed in compliance with 19.153.103 NMAC           Administrative Approvals and Exceptions:           Junifications 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:           Maintistrative Approvals.           Please check a box if one or more of the following is requested, if not leave blank:           Maintistrative approvals.           Please check a box if one or more of the following is requested, if not leave blank:           Maintistrative approvals.           Please check a box if one or more of the following is requested in the application.           Receining/BGT Linery           Exception(s): Requests must be submitted to the same for for consideration of approval.           Sting Criteria (resparcing permitting): 19.517.10 NMAC           Instructions: The exploriton must direch builtfication for request. Please erfor to be Sami Fe Environmental Bureau Office for consideration of approval.           Ground water is less than 50 feet below the botton the temporary pit, permanent pit, or below-grade tank.           • NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells           Within 300 feet forom a permanent residence, school, hospital, institution, or church in existence at the time of initial application.           Application (certification) of the proposed site; Aerial photo; Satellite image           Within 300 feet forom a per	12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
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index (measured from the ordinary high-water mark). <ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering aurposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>Within 500 horizonal to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 500 feet of a watand.</li> <li>Within 500 feet of a watand.</li> <li>Within 500 feet of a watand.</li> <li>Within 1000 feet of any other from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a watand.</li> <li>Within 500 feet of a watand.</li> <li>Within 500 feet of a watand.</li> <li>Within 500 feet of a vertage amende</li> <li>Within a unstable area.<td>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa</td><td>Yes</td><td>XNo</td></li></ul>	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	XNo
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Application.	Within 300 feet from a permanent residence school hospital institution or shurch is suidance of the discussion		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)       INA         - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       INA         Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       INA         (Applied to permanent pits)       · Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       INA         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.       INA         • NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.       INO         Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended       IYes       INO         • Written confirmation or verification from the municipality; Written approval obtained from the municipality       IYes       INO         Within ta area overlying a subsurface mine.       IYes       INO         • Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division       IYes       No         Within a unstable area.       • Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Resources; USGS; NM Geologi	application.	Yes	XNo
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent pits)         <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> </ul> </li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted purposuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Yes Xi No</li> <li>Yes Xi No</li> <li>Yes Xi No</li> <li>Yes Xi No</li> </ul>	(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       Image: Test applied to permanent pits)         · Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: Test applied to permanent pits)         · Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: Test applied to permanent pits)         · Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image: Test applied to permanent pits)         · NM Office of the state Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.       Image: Test applied to permanent to NMSA 1978, Section 3-27-3, as amended         · Written confirmation or verification from the municipality; Written approval obtained from the municipality       Image: Test applied to perposed site         Within 500 feet of a wetland.       Image: Yes       Image: Xino         · US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site       Image: Yes       Image: Xino         Within a unstable area.       Image: Yes       Image: Xino         · US Fish and Wildlife Wetland into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological       Image: Yes       Image: Xino         Within a unstable area.       Image: Xino       Image: Yes       Image: Xino         · Vitin a unstable area.       Image: Yes	- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
(Applied to permanent pits)       Image         - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image       Image         Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.       Image: Image image: Image	Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within a unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> </ul>	(Applied to permanent pits)	XNA	_
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map: Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	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
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<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	TYes	XNo
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	- 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		
<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> <li>Yes X No</li> <li>Yes X No</li> </ul>	<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality. Written conserved activity of the proposed site.</li> </ul>		
Within the area overlying a subsurface mine.       Yes         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         Yes         Xithin a 100-year floodeloin	<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>		N N
Vithin an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Vithin a 100-year floodploin	<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes	XNo
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul>	Yes Yes	X No X No
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	<ul> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes Yes Yes	X No X No X No

Form C-144

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Oil Conservation Division

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Temporary Pits, Emerg Instructions: Each of the fo							
manning Luch of the je	ency Pits and Below-grade Tanks Per	mit Application Attachment	Checklist: Subsection B of 19.15.17.9 NMAC				
X Hydrogeologic Re	port (Below grade Tapka) based upon	ation. Please indicate, by a check	mark in the box, that the documents are attached.				
Hydrogeologic Da	a (Temporary and Emergency Pits) - based upon t	and upon the requirements of Paragraph (	4) of Subsection B of 19.15.17.9 NMAC				
X Siting Criteria Cor	pliance Demonstrations - based upon th	be appropriate requirements of Pa	aragraph (2) of Subsection B of 19.15.17.9				
X Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC							
X Operating and Ma	ntenance Plan - based upon the appropriate	19.13.17.11 NMAC					
X Closure Plan (Plea	e complete Boyes 14 through 18 if and	late requirements of 19.15.17.1.	2 NMAC				
19.15.17.9 NMAC	and 19.15.17.13 NMAC	licable) - based upon the approp	priate requirements of Subsection C of				
Previously Approved I	esign (attach copy of design)	API	or Permit				
12							
Closed-loop Systems Pe	mit Application Attachment Checklis	st: Subsection B of 19.15.17.9 NN	1AC				
Geologic and Hyd	owing items must be attached to the application of the second sec	ation. Please indicate, by a check i	nark in the box, that the documents are attached.				
Siting Criteria Cor	pliance Demonstrations (and f	- based upon the requirements	of Paragraph (3) of Subsection B of 19.15.17.9				
Design Plan - base	upon the appropriate requirements of 1	e closure) - based upon the appr	opriate requirements of 19.15.17.10 NMAC				
Operating and Mai	topon the appropriate requirements of 1	9.15.17.11 NMAC					
	itenance Plan - based upon the appropria	ate requirements of 19.15.17.12	NMAC				
NMAC and 19.15.	complete Boxes 14 through 18, if appl	icable) - based upon the approp	riate requirements of Subsection C of 19.15.17.9				
Previously Approved I	resign (attach conv of design)	A DI					
Previously Approved (	perating and Maintenance Dise	API					
	perating and Waintenance Plan	API					
Instructions: Each of the for	<b>Description Checklist:</b> Subsection B of lowing items must be attached to the applic ort - based upon the requirements of Par	of 19.15.17.9 NMAC <i>cation. Please indicate, by a checl</i> agraph (I) of Subsection B of 19	k mark in the box, that the documents are attached. 9.15.17.9 NMAC				
Siting Criteria Com	pliance Demonstrations - based upon the	e appropriate requirements of 19	9.15.17.10 NMAC				
Certified Engineeri	is Assessment	rista requiremente -6.10.15.17					
Dike Protection and	Structural Integrity Design: based upon	the appropriate requirements of 19.15.17.	11 NMAC				
Leak Detection Des	gn - based upon the appropriate require	ments of 19.15.17.11 NMAC	19.15.17.11 NMAC				
Liner Specifications	and Compatibility Assessment - based t	upon the appropriate requirement	nts of 19151711NMAC				
Quality Control/Qua	lity Assurance Construction and Installa	tion Plan					
Operating and Main	enance Plan - based upon the appropriate	te requirements of 19.15.17.12	NMAC				
Freeboard and Over	opping Prevention Plan - based upon the	e appropriate requirements of 19	9.15.17.11 NMAC				
Invuisance of Hazard	Nic Odore in shiding 1100 D						
Emergency Respons	<ul> <li>Plan</li> </ul>	lan					
Emergency Respons     Oil Field Waste Stre	bus Odors, including H2S, Prevention Pl Plan un Characterization	lan	×				
Emergency Respons     Oil Field Waste Stre     Monitoring and Insp	ous Odors, including H2S, Prevention Pl e Plan um Characterization ection Plan	lan	-				
Emergency Respons     Oil Field Waste Stre     Monitoring and Insp     Erosion Control Plan	ous Odors, including H2S, Prevention Pl e Plan am Characterization ection Plan	lan					
Emergency Response     Oil Field Waste Stree     Monitoring and Insp     Erosion Control Plan     Closure Plan - based	us Odors, including H2S, Prevention Pl e Plan am Characterization ection Plan upon the appropriate requirements of Su	ubsection C of 19.15.17.9 NMA	C and 19.15.17.13 NMAC				
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Emergency Response     Oil Field Waste Stre     Monitoring and Insp     Erosion Control Plan     Closure Plan - based     Closure Plan - based     Droposed Closure: 19.15.     nstructions: Please complete     Ype: Drilling Wo     DAlternative     roposed Closure Method:     S     Yaste Excavation and Replacements	Dus Odors, including H2S, Prevention Ple Plan am Characterization ection Plan upon the appropriate requirements of State applicable boxes, Boxes 14 through 18 kover Emergency Cavitation X Waste Excavation and Removal Waste Removal (Closed-loop systems On-site Closure Method (only for tem In-place Burial Or Alternative Closure Method (Exception Alternative Closure Method (Exception the box, that the documents are attemption of the temperature of temperature of the temperature of temperat	Lan Lubsection C of 19.15.17.9 NMA B, in regards to the proposed closu P&A Permanent Pit (Below-Grade Tank) s only) s only) s only) s only) porary pits and closed-loop system -site Trench Dns must be submitted to the San 7.13 NMAC) Instructions: Each of hed.	AC and 19.15.17.13 NMAC Ter plan. Below-grade Tank Closed-loop System Ems) ta Fe Environmental Bureau for consideration) of the following items must be attached to the closure plan.				
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Emergency Response     Oil Field Waste Stree     Monitoring and Insp     Erosion Control Plan     Closure Plan - based     Closure Plan - based     roposed Closure: 19.15,     nstructions: Please complete     ype: Drilling Wo     Alternative     roposed Closure Method:	Dus Odors, including H2S, Prevention Ple Plan am Characterization ection Plan upon the appropriate requirements of Si requir	Lan Lubsection C of 19.15.17.9 NMA B, in regards to the proposed closu P&A Permanent Pit (Below-Grade Tank) s only) uporary pits and closed-loop system n-site Trench ons must be submitted to the San 7.13 NMAC) Instructions: Each of hed. ments of 19.15.17.13 NMAC uppropriate requirements of Sub	AC and 19.15.17.13 NMAC				
Emergency Response     Oil Field Waste Stree     Monitoring and Insp     Erosion Control Plan     Closure Plan - based     Closure Plan - based     roposed Closure: 19.15.     nstructions: Please complete     ype: Drilling Wo     Alternative     roposed Closure Method:     S     Aste Excavation and Reg     Ease indicate, by a check me     X Protocols and Proceed     X Confirmation Samplin     X Disposal Facility Nam	Dus Odors, including H2S, Prevention Ple Plan am Characterization ection Plan upon the appropriate requirements of Superior of the applicable boxes, Boxes 14 through 18 kover Excavation and Removal Closed-loop systems On-site Closure Method (only for tem In-place Burial Or Alternative Closure Method (Exception Alternative Closure Method (Exception the box, that the documents are attactives - based upon the appropriate require g Plan (if applicable) - based upon the appropriate (or liquids, drilling the closure Method).	Lan Lubsection C of 19.15.17.9 NMA B, in regards to the proposed closu P&A Permanent Pit (Below-Grade Tank) s only) uporary pits and closed-loop system is site Trench ons must be submitted to the Sam 7.13 NMAC) Instructions: Each of hed. ments of 19.15.17.13 NMAC uppropriate requirements of Sub ng fluids and drill cuttings)	AC and 19.15.17.13 NMAC  re plan. Below-grade Tank Closed-loop System  ems) ta Fe Environmental Bureau for consideration)  of the following items must be attached to the closure plan. section F of 19.15.17.13 NMAC				
Emergency Respons     Oil Field Waste Stre     Monitoring and Insp     Erosion Control Plan     Closure Plan - based     Closure Plan - based     Alternative     Proposed Closure: 19.15.     Alternative     Proposed Closure Method:     S     Vaste Excavation and Realease indicate, by a check me     X Protocols and Proceed     X Onfirmation Samplin     X Disposal Facility Nan     X Soil Backfill and Cov	auso Odors, including H2S, Prevention Ple         e Plan         am Characterization         ection Plan         upon the appropriate requirements of St         17.13 NMAC         the applicable boxes, Boxes 14 through 18         kover       Emergency         Cavitation         X Waste Excavation and Removal         Waste Removal (Closed-loop systems)         On-site Closure Method (only for tem         In-place Burial         Or         Alternative Closure Method (Exception)         anoval Closure Plan Checklist:         (19.15.17)         rk in the box, that the documents are attacc         gres - based upon the appropriate require         g Plan (if applicable) - based upon the a         e and Permit Number (for liquids, drillight requires)         gres Specifications - based upon the	Lan Lan Lan Lan Lan Lan Lan Lan	AC and 19.15.17.13 NMAC  re plan. Below-grade Tank Closed-loop System  ems) ta Fe Environmental Bureau for consideration)  of the following items must be attached to the closure plan. section F of 19.15.17.13 NMAC ubsection H of 19.15.17.13 NMAC				
Emergency Respons     Oil Field Waste Stre     Monitoring and Insp     Erosion Control Plai     Closure Plan - based     Closure Plan - based     dia     Closure Plan - based     Soil Backfill and Cov     X Re-vegetation Plan - based	Dus Odors, including H2S, Prevention Ple Plan am Characterization ection Plan upon the appropriate requirements of State applicable boxes, Boxes 14 through 18 kover Emergency Cavitation X Waste Excavation and Removal Waste Removal (Closed-loop systems On-site Closure Method (only for tem In-place Burial Or Alternative Closure Method (Exception Alternative Closure Method (Exception and Removal Closure Plan Checklist: (19.15.17 rk in the box, that the documents are attace res - based upon the appropriate require g Plan (if applicable) - based upon the appropriate requirements are dupon the appropriate requirements and Permit Number (for liquids, drilling r Design Specifications - based upon the appropriate requirements are advanted upon the appropriate requirements areadous of the approprise and the approprise of the appropr	Lan Lubsection C of 19.15.17.9 NMA B, in regards to the proposed closu P&A Permanent Pit (Below-Grade Tank) s only) s only) s only) s only) porary pits and closed-loop system -site Trench DNS must be submitted to the San 7.13 NMAC) Instructions: Each of the d. rments of 19.15.17.13 NMAC ppropriate requirements of Sub ng fluids and drill cuttings) e appropriate requirements of S of Subsection I of 19.15.17.13	AC and 19.15.17.13 NMAC  re plan. Below-grade Tank Closed-loop System  ems) ta Fe Environmental Bureau for consideration)  of the following items must be attached to the closure plan. section F of 19.15.17.13 NMAC ubsection H of 19.15.17.13 NMAC NMAC				

Form C-144

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Oil Conservation Division

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Grou</u> Instructions: Please identify the facility or facilities for the disposal of liquide	nd Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAG	2)
are required.	arning junas and arni cuttings. Use attachment if more than ty	vo facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed loop system acception in the state	Disposal Facility Permit #:	CONTRACTOR OF THE OWNER
Yes (If yes, please provide the information No	ctivities 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 operative of the service of the serv	ations: propriate requirements of Subsection H of 19.15.17.13 NM Subsection I of 19.15.17.13 NMAC of Subsection G of 19.15.17.13 NMAC	IAC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 Instructions: Each siting criteria requires a demonstration of compliance in the closure certain siting criteria may require administrative approval from the appropriate district for consideration of approval. Justifications and/or demonstrations of equivalency are to	NMAC plan. Recommendations of acceptable source material are provided b office or may be considered an exception which must be submitted to required. Please refer to 19.15.17.10 NMAC for guidance.	elow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS: Da</li> </ul>	ta obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried	waste	
- NM Office of the State Engineer - iWATERS database search; USGS; Data	a obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste		
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS: Data</li> </ul>	a obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse or 200 feet of a continuously flowing	· · · · · · · · · · · · · · · · · · ·	∐N/A
(measured from the ordinary high-water mark).	ignificant 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 churd	ch in existence at the time of initial application.	
- Visual inspection (certification) of the proposed site; Aerial photo; satellite i	mage	
Within 500 horizontal feet of a private, domestic fresh water well or spring that le purposes, or within 1000 horizontal fee of any other fresh water well or spring, in - NM Office of the State Engineer - iWATERS database; Visual inspection (co Within incorporated municipal boundaries or within a defined municipal for	existence at the time of the initial application. ertification) of the proposed site	Yes No
pursuant to NMSA 1978. Section 3-27-3, as amended.	ter well field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland	l obtained from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual	inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	, and proposed site	
<ul> <li>Written confiramtion or verification or map from the NM EMNRD-Mining a</li> </ul>	nd Mineral Division	
Engineering measures incompared into the table Design of the		Yes No
Topographic map	& Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain.		
- FEMA map		
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each provide the lange of th	ach of the following items must bee attached to the closur	e plan. Please indicate.
Siting Criteria Compliance D		
Proof of Surface Owner Notice based upon the appropr	riate requirements of 19.15.17.10 NMAC	
Construction/Design Plan of Russial Transh (for a line line)	ments of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Temperate Dist for the land	n the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requiring of a d	frying pad) - based upon the appropriate requirements of 19	9.15.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the second	interrequirements of 8	
Waste Material Sampling Plan - based upon the appropriate	tate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquide drilling duite	Is and drill outline and	
Soil Cover Design - based upon the appropriate requirements of Sub	ection H of 10, 15, 17, 12, NMA C	not be achieved)
	101 19.13.17.15 NMAC	
Re-vegetation Plan - based upon the appropriate requirements of Sub-	section I of 19 15 17 13 NMAC	

Oil Conservation Division

Page 4 of 5

Name (Print):	Crystal Fafoya	Title:	Regulatory Technician	
Signature:	Cristel Jala	Date:		
e-mail address:	is at at Lafova ig conocophilips.com	Telephone	505 326 0837	
West and the second	SPURCES AND STREET		3/13-320-9637	
20			A CONTRACTOR OF A CONTRACT OF	111111111111
OCD Approval: Per	mit Application (including closure plan)	Closure Plan (only	) OCD Conditions (see attachment)	
OCD Representative Sign	nature: CRWhitehead	l	Sontombor 15, 202	01
			Approval Date:September 13, 202	- 1
Environme	ental Specialist	OCD Per	mit Number: BGT 1	
21				
Closure Report (required	within 60 days of closure completion): Sub-	section K of 19.15.17.13 NMA	LC	
eport is required to be submi	tted to the division within 60 days of the completion	on of the closure activiti	sure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an	
pproved closure plan has be	en obtained and the closure activities have been co	ompleted.	and the do not complete this section of the form intil an	
		Closur	re Completion Date:	
22				
losure Method:				
Waste Excavation and	Removal On-site Closure Method	Alternative Closure	e Method Waste Removal (Closed-loop systems only)	
If different from appro	oved plan, please explain.			
3				
losure Report Regarding V	aste Removal Closure For Closed-loop Systems	s That Utilize Above G	round Steel Tanks or Haul-off Bins Only:	
ere utilized.	he facility or facilities for where the liquids, drill	ing fluids and drill cutt	ings were disposed. Use attachment if more than two facilities	
Disposal Facility Name:		Disposal Facility	Permit Number:	
Disposal Facility Name:		Disposal Facility	Permit Number:	
Were the closed-loop system	m operations and associated activities performed o	on or in areas that will no	or be used for future service and opeartions?	
Yes (If yes, please dem	ionstrate compliane to the items below)	No		
Required for impacted area	s which will not be used for future service and ope	erations:		
Soil Backfilling and Co	o Documentation)			
Re-vegetation Applicat	ion Rates and Seeding Technique			
Closure Report Attachn	nent Checklist: Instructions: Each of the follow	wing items must be atta	ched to the closure report. Please indicate by a check much in	
the box, that the documents	are attached.		the cost of the second s	
Proof of Closure Noti	ce (surface owner and division)			
Plot Plan (for on-site	(required for on-site closure)			
Confirmation Samplia	Analysis and temporary pits)			
Waste Material Samplin	ing Analytical Results (if applicable)			
Disposal Facility Nam	e and Permit Number			
Soil Backfilling and C	over Installation			
Re-vegetation Applica	tion Rates and Seeding Technique			
Site Reclamation (Pho	to Documentation)			
On-site Closure Locati	on: Latitude:	Longitude:	NAD 0 1027 0 1087	
			1727 [ 1983	
erator Closure Certificat	ion:			
reby certify that the informat	ion and attachments submitted with this closure re	port is ture, accurate an	nd complete to the best of my knowledge and belief. I also certify tha	
cosure compues with all app	sucable closure requirements and conditions speci	fied in the approved clo	sure plan.	
me (Print):		Title:		
nature:		Date:		
ail address				
		Telephone:		
				1

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# New Mexico Office of the State Engineer POD Reports and Downloads

1. Hundred All 10. g. 10. avril	Township: 30N Range: 07W Sections:
	NAD27 X: Y: Zone: Search Radius:
Co	ounty: Basin: Number: Suffix:
Ow	vner Name: (First) (Last) C Non-Domestic C Domestic @ Al
	POD / Surface Data Report Avg Depth to Water Report Water Column Report
	Clear Form iWATERS Menu Help

## WATER COLUMN REPORT 08/21/2008

	(quarter	s are	a 1=	NW	2=	=NE	3 = SW	4=SE)						
	quarter	s are	) bi	gge	est	t to	smal	lest)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	q	P	Zone	x	Y	Well	Water	Column		,
SJ 02698	30N	07W	15	3	1					402	255	147		
SJ 02366	30N	07W	15	3	1		С	114800	2117300	345	225	120		
SJ 03640	30N	07W	15	3	1	1				433	241	192		
SJ 00837	30N	07W	17	4	4					400				
SJ 03385	30N	07W	17	4	4	4				520	460	60		
SJ 03006	30N	07W	24	1	3	3				100				
SJ 03082	30N	07W	24	3	1	1				98	61	37		
SJ 03485	30N	07W	24	3	1	1				126	60	66		
SJ 02818	30N	07W	24	3	1	2				86	42	44		
SJ 03773 POD1	30N	07W	24	3	1	2		126639	2112238	120	70	50		
SJ 03053	30N	07W	24	3	4	4				200				
SJ 03075	30N	07W	25	1	2	1				165	78	87		
SJ 03774 POD1	30N	07W	25	1	3	3		126554	2107670	300	220	80		
SJ 02983	30N	07W	25	1	4	3				262	40	222		
SJ 00035	30N	07W	33	4	2	2				547	467	80		
SJ 03301	30N	07W	34	4	4	4				21	10	11		

Record Count: 16



ConocoPhillips



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# Mines, Mills and Quarries Web Map

SAN JUAN 30-6 UNIT 419S Unit Letter: J, Section: 11, Town: 030N, Range: 007W

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SAN QUAN 30-6 UNIT 4195

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## **SAN JUAN 30-6 UNIT 419S**

## Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 30-6 UNIT 419S', which is located at 36.8244 degrees North latitude and 107.53649 degrees West longitude. This location is located on the Navajo Dam 7.5' USGS topographic quadrangle. This location is in section 11 of Township 30 North Range 7 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Allison, located 14.0 miles to the north. The nearest large town (population greater than 10,000) is Durango, located 36.4 miles to the northwest (National Atlas). The nearest highway is State Highway 511, located 4.1 miles to the west. The location is on BLM land and is 2,925 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, Subbasin. This location is located 1951 meters or 6399 feet above sea level and receives 14 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 385 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 2,013 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is named San Juan River and is 4,579 feet to the south. The nearest water body is named Navajo Reservoir and is 4,467 feet to the southwest. It is classified by the USGS as a perennial lake and is 15,452.4 acres in size. The nearest spring is 30,431 feet to the west. 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 4,963 feet to the south. The nearest wetland is a 1.4 acre Lake located 4,539 feet to the southwest. The slope at this location is 3 degrees to the southwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION -- Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' 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 11.3 miles to the east as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

## Regional Hydrogeological context:

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

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

Below Grade Tar

## 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:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 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. Sideroclast H Once high level is detected RTU logic closes the inlet separator sales valve and vent valve to c sign and Construction does not permit vent valve to open. This shutdown of the sales valve and 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.
  - 11. The general specification for design and construction are attached in the BR document.



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PROPERTIES	TEST METHOD		30BB	• J:	688	Je Je	SBE STA
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll
Appearance		Bla	ck/Black	Blac	k/Black	Blac	k/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	15 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24,19)	189 lbs (27 21)	210 lbs (30 24)
Construction		**Ext	rusion laminate	d with encapsul	ated tri-direction	al scrim reinfor	(00.24)
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	00.154
Maximum Use Temperature		180° F	180° F	180° F	180° F	190% E	100% 5
Minimum Use Temperature		-70° F	-70° F	-70° F	70% 5	100 F	180° F
D = Machina Direction				-/01	-70 F	-70° F	-70° F

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.

WITH LRAVEN 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 cisciaims all lability for resulting loss or damage



# PLANT LOCATION

Sioux Falls, South Dakota

# SALES OFFICE

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

# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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

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

## General Plan:

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

District I 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

District IV

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

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QUESTIONS

Action 47766

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47766
	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

ubsection 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.	
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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	
Polow grada Tank	Balayy Crade Tank (RCT)

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.	- Portato i Approximento i	
	Registered / Signature Date	Not answered.

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

#### ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47766
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144] B)

#### ACKNOWLEDGMENTS

 $\overline{\checkmark}$ 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.  $\overline{\checkmark}$ 

I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

ACKNOWLEDGMENTS

Action 47766

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

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CONDITIONS

Action 47766

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47766
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/15/2021