Binner       State of New Mexico       Energy Mingrals and Natural Resources       Department         Data American       Department       Operational       Operational       and the seconce of the sec				· .	44 - 3
Bit 3 First 3, Arteia, NM 8310       Department         Different Number, Number, NM 7410       Diff Conservation Division       Diff Conservation Division         Database       Santa Fc, NM 87505       Proposed Alternative Michael Division       Diff Conservation Division         2203.N Pranck Dr., Samia Fc, NM 87505       Pit, Below-Grade Tank, or       Proposed Alternative Method Permit or Closure Plan Application       OIL CONS. DIV DIST         2203.N Pranck Dr., Samia Fc, NM 87505       Pit, Below-Grade Tank, or       Diff Conservation (R, or proposed alternative method	1625 N. French Dr., Hobbs, NM 88240			COS	Revised June 6, 2013
Lines Seams:   Welded   Factory   Difference   Pack   Multi-Well Fluid Management   Low Chloride Drifting Fluid   yels   miles in the Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   String-Refinered   Subsection 1 of 19.15.17.11 NMAC   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other     Inter Seams   Welded   Factory   Wilds and y   Other     Inter Seams     Inter Seams   Welded   Factory   Wilds and y   Other	811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conserva 1220 South S	ation Division St. Francis Dr.	appropriate NMOCD I For permanent pits si Environmental Bureau	ubmit to the Santa Fe office and provide a copy
Lines Seams:   Welded   Factory   Difference   Pack   Multi-Well Fluid Management   Low Chloride Drifting Fluid   yels   miles in the Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   String-Refinered   Subsection 1 of 19.15.17.11 NMAC   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other   Volume: 4,568   bbl Djimensions: L. 190' x W_34' x D_15'   Inter Seams:   Welded   Factory   Wilds and y   Other     Inter Seams   Welded   Factory   Wilds and y   Other     Inter Seams     Inter Seams   Welded   Factory   Wilds and y   Other	Proposed Alter	Pit, Below-C	<u>irade Tank, or</u> ermit or Closu	ure Plan Application	OH CONS. DIV DIST.
Please be divided that approval of this request does not reflieve the operator of finding should operations result in pollution of surface water, ground water or the environment. Nor does approval refleve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.            Öperator: Anschutz Exploration Comparison	or proposed alternative metho	of a pit or proposed alter of a pit, below-grade ta ation to an existing peri plan only submitted for d	nk, or proposed alto nit/or registration an existing permit	ted or non-permitted pit, be	DEC <b>2 4 2014</b> low-grade tank,
Address:       555 17 <sup>th</sup> Street, Suite 2400. Denver, CO. 80202         Pacility or well name:       Regina Com 25-2-14-15 #1H         AP, Number:       20039-31203         OCD Permit Number:       2002         Center of Proposed Design:       Latitude	Please be advised that approval of this request does not	relieve the operator of liabil	ity should operations r	esult in pollution of surface wate	r, ground water or the
Facility or well name:       Regina Com 25.2-14-15 #1H         API_Number:			O(	GRID #: 146906	······································
AP1 Number:       30-039-31203       OCD Permit Number:         U/L or Otr/Otr       B. NW/NF       Section       14       Township       23N       Range       2W       County:       Rio Arriba         Center of Proposed Design:       Latitude       N36.40251       Longitude       W107.01803       NAD:       ]]927 X 1983         Surface Owner:       Pederal       Stat X Private       Tribul Trust or Indian Allotment		,		· · · · · · · · · · · · · · · · · · ·	
UU or Ott/Qtr       B.NW/NE       Section       14       Township       25N       Range       2W       County:       Rio Arriba         Center of Proposed Design:       Latitude       N36.40251       Longitude       W107.01803       NAD:       []]] 1927 X 1983         Surface Owner:       Federal       Suite X Private       Trust or Indian Allotment       NAD:       []]] 1927 X 1983         *       Yeitr       Subsection F, G or J of 19.15.17.11 NMAC       NAD:       []] 1927 X 1983         Temporary:       X Drilling       Workover			······	·	<u> </u>
Center of Proposed Design: Latitude					
2         XPit:       Subsection P, G or J of 19.15.17.11 NMAC         Temporary:       X Drilling       Workover         Permanent       Emergency       Cavitation       P&A	Center of Proposed Design: Latitude <u>N36.402</u>	51	Longitude	· · · · · · · · · · · · · · · · · · ·	
Temporary: X Drilling    Workover:            Permanent    Emergency    Cavitation    P&A    Multi-Well Fluid Management       Low Chloride Drilling Fluid    yes    no            Lined    Unlined Liner type: Thickness mil    LLDPE    HDPE    PVC    Other	Surface Owner: Federal State X Private	Tribal Trust or Indian Allo	tment		
3.         Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:	Temporary: X Drilling, Workover Permanent Emergency Cavitation P Lined Unlined Liner type: Thickness X.String-Reinforced	&A [] Multi-Well Fluid 20 mil [] LLDP	E 🗍 HDPE 🗍 PV	C  Other	
Below-grade tank:       Subsection 1 of 19.15.17.11 NMAC         Volume:	Liner Seams: Welded I Factory I Other	·	Volume:4,568	bbl_Dimensions: L190 <sup>2</sup>	_ x W <u>34'</u> x D <u>15</u>
Tank Construction material:         Secondary containment with leak detection.       Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other         Liner type:       Thickness	Below-grade tank: Subsection 1 of 19.15.17.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Visible sidewalls and liner       Visible sidewalls only       Other         Liner.type:       Thickness				f f	
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet				1	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 5. Fencing: Subsection D of 19.15.17.11.NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Chain link, four strands of barbed wire evenly spaced between one and four feet	Liner type: Thicknessmil.	HDPE PVC	Other	·	
5. Fencing: Subsection D of 19.15.17.11.NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	A. [] Alternative Method:				
<ul> <li>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)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> </ul>	Submittal of an exception request is required. Exc	eptions must be submitted	to the Santa Fe Envi	ronmental Bureau office for co	nsideration of approval.
X Anernaic, Fricase specify 4 II flog wille	<ul> <li>Chain link, six feet in height, two strands of bar institution or church)</li> <li>Four foot height, four strands of barbed wire ev</li> </ul>	bed wire at top (Required	if located within 100		e, school, hospital.
	Anternate, Frease specify 4 it riog wife	· · · · · · · · · · · · · · · · · · ·		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	

Form C-144

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Netting:       Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)         Screen       Netting         Other       Other         Monthly inspections (If netting or screening is not physically feasible)	
Signs:       Subsection C of 19.15.17.11 NMAC         I 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers         X Signed in compliance with 19.15.16.8 NMAC	
<ul> <li>8. <u>Variances and Exceptions:</u> Justifications, and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li>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.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>	
<sup>9.</sup> <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	stable source
<b>General siting</b>	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	Yes X No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes X No ☐ NA
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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes X No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes 🕱 No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes 🕱 No.
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗋 Yes 🔀 No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	🗋 Yes 🔲 No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗶 No
Within 300 feet from a occupied 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> </ul>	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes 🗴 No

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Withi	n 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🔀 No
Tem	porary Pit Non-low chloride drilling fluid	
Withi or pla -	n 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, ya lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
Withi	n 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
	500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock ing purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🔲 Yes 🗌 No
Within -	n 300 feet of a welland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Perr	nanent Pit or Multi-Well Fluid Management Pit	
	a 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa neasured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Withi	1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No
	n 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
'Within +	500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Instruction attach	orary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N citous: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do ed. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Besign Plan - based upon the appropriate requirements of 19.15.17.10 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. 15.17.13 NMAC eviously Approved Design (attach copy of design) API Number: or Permit Number:	cuments are
11.		
Multi Instru attach	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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 .15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Pr	eviously Approved Design (attach copy of design) API Number: or Permit Number:	

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Instri	anent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC includes the second state of the following items must be attached to the application. Please indicate, by a check mark in the box, that the c	locuments are
attach	Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
	Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 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 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H <sub>2</sub> S, 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	
13.	Closure Fian - based upon the appropriate requirements of Subsection C 0F 19.1517.5 (MMAC and 19.15) (7.15) MMAC	a 1 are
Prope	osed Closure: 19.15.17.13 NMAC actions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
	Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fl Alternative sed Closure Method: Waste Excavation and Removal	uid Management Pit
riopo	Waste Excavation and Kenoval Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	
	In-place Burial On-site Trench Burial Alternative Closure Method	•
	e Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be of re plan. Please indicate, by a check mark in the box, that the documents are attached. 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 C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Ré-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	ittached to the
15.		
Instru provid	Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC. ctions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour led below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 17.10 NMAC for guidance.	
Grou	id water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes 🕅 No □ NA
Groun	d water is between 25-50 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🔲 Yes 🔀 No 🔲 NA
Groun	d water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🕱 Yes 🗌 No 🔲 NA
	n 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa neasured from the ordinary high-water mark). Topographic map, Visual inspection (certification) of the proposed site	Yes 🔀 No
Within-	a 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes 🔀 No
	n 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence time of initial application. NM Office of the State Engineer - IWATERS database; Visual inspection (certification) of the proposed site	🔲 Yes 🔀 No
Writte	n confirmation or verification from the municipality; Written approval obtained from the municipality	🔲 Yes 🔀 No
Within US Fi	n 300 feet of a wetland. sh and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes 🔀 No
Withi	incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	· ·.

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality, Written approval obtained from the municipality	Yes X No
Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes 🕅 No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes 🔀 No
Within a 100-year floodplain. FEMA map	Yes X No
<ul> <li>16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards can Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	4.11 NMAC 4.15.17.11 NMAC
17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and be Name (Print):	lief.
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 12/2 Title: OCD Permit Number:	4/2014
19. <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17:13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submittin The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	g the closure report. of complete this
20.         Closure Method:         Waste Excavation and Removal         On-Site Closure Method         If different from approved plan, please explain.	loop systems only)
21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please is mark in the box, that the documents are attached.         Proof of Closure Notice (surface owner and division)         Proof of Deed Notice (required for on-site closure for private land only)         Plot Plan (for on-site closures and temporary pits)         Confirmation Sampling Analytical Results (if applicable)         Waste Material Sampling Analytical Results (required for on-site closure)         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)         On-site Closure Location: Latitude       Longitude	
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Name (Print):		Title:
Signature:		Date:
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# **OIL CONS. DIV DIST. 3**

DEC 23 2014

### Anschutz Exploration Corporation Regina Com 25-2-14-15 Pit Design and Construction Plan

In accordance with Rule 19 15 17 the following information describes the design and construction for temporary pits on Anschutz's locations; this is Anschutz's standard procedure for all temporary pits.

#### General Plan

- 1 Anschutz will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2 Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration
- 3 Anschutz will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator, the location of the well by unit letter, section, township range, and emergency telephone numbers (complying with 19.15.16.8 NMAC)
- 4 Anschutz shall construct all new fences unitizing 48' steel mesh field-fence (hogwire) on the bottom. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or overwork operations, when the front side of the fence will be temporarily removed for operational purposes
- 5 Anschutz shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure
- 6 Anschutz shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot
- 7 Pit walls will be walked down by a crawler type tractor following construction
- 8 All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements
- 9 Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided
- 10 All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep
- 11 Anschutz will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. Anschutz will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. Anschutz will minimize the number of field seams in corners and irregularly shaped areas
- 12 The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system
- 13 The pit shall be protected from run-on by constructing and maintaining diversion ditched around the location or around the perimeter of the pit in some cases
- 14 The volume of the pit shall not exceed 4,568 bbls, including freeboard
- 15 If needed, temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit
- 16 The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11. F (11)
- 17 Anschutz will not allow freestanding liquids to remain on the unlined portion of temporary blow pit
- 18 Anschutz will only dig pit when cuttings have been properly dried and mixed with bonding agent
- 19 Anschutz will construct pits in sections (cells) big enough to accommodate the cuttings that are tested and approved for disposal as the well is being drilled
- 20 Multiple cells will be confined within the permitted pit area designated for "reserve pit" shown on plat
- 21 The cells will be separated by ~ 4 ft earthen buffer to provide additional stability
- 22 Anschutz will temporarily store cuttings in steel tanks in preparation for disposal

## Anschutz Exploration Corporation Regina Com 25-2-14-15 Maintenance and Operating Plan

In accordance with Rule 19 15 17.12 the following information described the operation and maintenance of temporary pits on Anschutz's locations.

#### **General Plan**

- 1 Anschutz intends to use the pit for cuttings disposal only but will operate and maintain the temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2 Anschutz will conserve drilling fluids by utilizing a closed loop drilling system and either recycling, reusing or disposing of any extra fluids in a manner approved by division rules and that prevents contamination of fresh water and protects public health and the environment. If necessary, drilling fluids will be disposed at TnT Environmental Evap ponds & Land Farm/Disposal, Permit # NM-01-008
- 3 Anschutz will not discharge or store any hazardous waste in any temporary pit
- 4 If any pit liner's integrity is compromised or if any penetration of the liner occurs above the liquid's surface, then Anschutz shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner
- 5 If a leak develops below the liquid's level or if any penetration of the pit liner occurs below the liquid's surface, Anschutz shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. Anschutz shall notify the Aztec Division office pursuant to 19.15.29.NMAC.
- 6 The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or manifold system
- 7 The pit shall be protected from run-on by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases
- 8 Anschutz shall immediately remove any visible layer or oil from the surface of temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will be stored on-site until closure of pit
- 9 Only fluids generated during the drilling or workover process may be discharged into a temporary pit
- 10 Anschutz will maintain the temporary pit free of miscellaneous solid waste or debris
- 11 During drilling or workover operations, Anschutz will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports and company morning reports. Anschutz will file this log with the Aztec Division office upon closure of the pit
- 12 After drilling or workover operations, Anschutz will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at Anschutz's office electronically and will be filed with the Aztec Division office upon closure of the pit
- 13 Anschutz shall maintain at least two feet of freeboard for a temporary pit
- 14 Anschutz shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling or workover rig
- 15 Anschutz shall remove all free liquids from a cavitations within 48 hours after completing cavitations. Anschutz may request additional time to remove liquids from Aztec Division office if it is not feasible to remove liquids within 48 hours

### Anschutz Exploration Corporation Regina Com 25-2-14-15 Closure Plan

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In accordance with Rule 19.15.17.9 NMAC and 19.15.17.13 NMAC the following information describes the closure requirements of temporary pits on Anschutz's locations. This is Anschutz's standard procedure for all temporary pits.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of the pit closure. Closure report will be filed on C-144 and incorporated the following:

- Detail on Capping and Covering, where applicable
- Plot Plan (Pit diagram)

ii.

- Inspection reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

#### General Plan

- 1 All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves
- 2 The preferred method of closure for all temporary pits will be on-site burial, pursuant to Subsection B of 19.15.17.9 and assuming that all criteria listed in sub-section (D) of 19.15.17.13 are met
- 3 Prior to closure, the surface owner shall be notified at least 72 hrs but not more than one week prior to Anschutz's proposed closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested
- 4 Within 6 months of the Rig Off status occurring Anschutz will ensure that temporary pits are closed, re-contoured, and reseeded
- 5 Notice of Closure will be given to the Aztec Division office 72 hours but not more than one week of closure via email, or verbally, The notification of closure will include the following:
  - i. Operator's name
    - Location by Unit Letter, Section, Township, and Range. Well name and API Number
- 6 All contents, including synthetic pit liners, will be buried in place. By folding outer edges of the pit liner to overlap waste material, and then installing a geomembrane liner cover that is 20 mil string reinforced LLDPE, synthetic material, impervious, resistant to ultra violet light, petroleum hydrocarbons, salts, acid and alkaline.
- 7 Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents. The waste mixture must pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division.
- 8 A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection D of 19.15.17.13 (5). The concentration of any contaminant in the stabilized

waste is cannot be higher than the parameters listed in Table II of 19.15.17.13 NMAC. In the event that the criteria are not met, all contents will be handled per Subsection C of 19.15.17.13 i.e., Dig and haul

Components	Tests Method	Limit (mg/Kg) 10	
Benzene	EPA SW-846 8021B or 8015M		
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	1000	
Chlorides	EPA 300.1	40,000	

- 9 Upon completion of solidification and testing, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material (with chloride concentrations less than 600 mg/Kg) to establish vegetation at the site, or the background thickness of topsoil, whichever is greater
- 10 Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed 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 Notification will be sent to OCD when the reclaimed area is seeded
- 12 Following 19.15.17.13 (H) (5) (a-e), Anschutz shall seed the distributed 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. Suggested BLM stipulated seed mixed will be used on federal lands. In this case (private surface) the operator and surface owner have agreed to defer to the federal (BLM) stipulated seed mix. 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 thorough two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs
- 13 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be a four foot tall riser with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and Number, unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location
- 14 Anschutz plans to dig and line pit as described in construction plan in sections as cuttings are ready to be disposed off
- 15 Anschutz will temporarily store cuttings in above ground steel tanks in order to be prepared for testing and disposal
- 16 Anschutz will dig, line, dispose of cuttings and then back fill (with minimum of 4 feet of cover) typically in one days time to prevent any moisture from entering the pit
- 17 Anschutz has found this practice of cuttings disposal to be the best way to provide better or equal protection of fresh water, public health and the environment.

