## State of New Mexico

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr , Santa Fe, NM 87505 Epergy Minerals and Natural Reso Department

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

anks, submit to the appropriate D'District Office For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provinted copy to the appropriate NMOCD District Office.

gy pits, closed-loop systems, and

Pit, Closed-Loop System, Below-Grade Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

environment. Nor does approval relieve the operator of its responsibility to com	oly with any other applicable governmental authority's rules, regulations or ordinances.
Operator: COG OPERATING LLC	OGRID #:
Address: 550 WEST TEXAS, SUITE 1300 MIDLAND,	TX 79701
Facility or well name: GEMINI FEDERAL #11/	
API Number: <u>30-005-27972</u>	OCD Permit Number: P1- OD134
U/L or Qtr/Qtr UL Section 12 Township 15	S Range 31E County: CHAVES
Center of Proposed Design: Latitude N/A	LongitudeN/A NAD:1927 1983
Surface Owner: 🛛 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian A	Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	☐ Closed-loop System: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling Workover	☐ Drying Pad ☐ Tanks ☒ Haul-off Bins ☐ Other
☐ Permanent ☐ Emergency ☐ Cavitation	☐ Lined ☐ Unlined
Lined Unlined	Liner type: Thicknessmil
Liner type: Thicknessmil	Other
Other String-Reinforced	Seams: Welded Factory Other
Seams: Welded Factory Other	Volume:bblyd <sup>3</sup>
Volume: bbl Dimensions: L x W x D	Dimensions: Lengthx Width
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume:bbl	☐ Chain link, six feet in height, two strands of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and
Tank Construction material:	four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
☐ Visible sidewalls and liner	☐ Monthly inspections
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC
Other	12'x24', 2' lettering, providing Operator's name, site location, and
Liner type: Thicknessmil  HDPE PVC	emergency telephone numbers
Other	⊠ Signed in compliance with 19.15.3.103 NMAC
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

	No No	
(measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 500 horizontal 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.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  FEMA map  Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to t	No	
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NA     NA	No	
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- FEMA map  Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are	No	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are	No	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  NMAC		

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the de	ocuments are
attached.	
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	
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NIMAC	
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC	
Quality Control/Quality Assurance Construction and Installation Plan	
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
Nuisance or Hazardous Odors, including 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	
Proposed Closure: 19.15.17.13 NMAC	
Type: Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System	Alternative
Proposed Closure Method: Waste Excavation and Removal	
On-site Closure Method (only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench Burial	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for con	nsideration)
	<del> </del>
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable	
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from	
the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau	
office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	
NMAC for guidance.	
County water is less than 50 feet below the bottom of the buried weets	☐ Yes ☐ No
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
- NW Office of the State Engineer - TWATEKS database search, USGS, Data obtained from ficarby wens	□ 14A
Ground water is between 50 and 100 feet below the bottom of the buried waste	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA □
	_
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake	☐ Yes ☐ No
(measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Will be 600 be signed for the formation of the demonstration will be environ that less than five households use for demonstration or stock	☐ Yes ☐ No
Within 500 horizontal 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.	
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
- NM Office of the State Engineer - IWATEKS database; 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	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
White community, white approximation are management,	
Within 500 feet of a wetland.	☐ Yes ☐ No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.	☐ Yes ☐ No
- 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 ☐ No
Society; Topographic map	
	□ Vas □ Na
Within a 100-year floodplain.	☐ Yes ☐ No
- FEMA map	

Waste Excavation and Removal Closure Plan Checklist: (19.15.1	7.13 NMAC) Instructions: Each of the following items must be	attached to the
closure plan. Please indicate, by a check mark in the box, that the a	ocuments are attached.	
Protocols and Procedures - based upon the appropriate requirer Confirmation Sampling Plan (if applicable) - based upon the appropriate requirer	propriete requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drillin		
Soil Backfill and Cover Design Specifications - based upon the	appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Re-vegetation Plan - based upon the appropriate requirements of	f Subsection I of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requiremen	ts of Subsection G of 19.15.17.13 NMAC	
Waste Removal Closure For Closed-loop Systems That Utilize Ha	ul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please	indentify the facility
or facilities for the disposal of liquids, drilling fluids and drill cuttin	gs.	33 3 3
Disposal Facility Name: CRI OR G M INC. Disposal Facility		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions	: Each of the following items must be attached to the closure p	lan. Please indicate,
by a check mark in the box, that the documents are attached.		
Siting Criteria Compliance Demonstrations - based upon the ap	propriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate re	quirements of Subsection F of 19.15.17.13 NMAC	
Construction and Design of Burial Trench (if applicable) based	upon the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requirer Confirmation Sampling Plan (if applicable) - based upon the ap	nents of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate rec	propriate requirements of Subsection F of 19.13.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drillin	g fluids and drill cuttings or in case on-site closure standards canr	not be achieved)
Soil Cover Design - based upon the appropriate requirements o	Subsection H of 19.15.17.13 NMAC	<b>,</b>
Re-vegetation Plan - based upon the appropriate requirements of		
Site Reclamation Plan - based upon the appropriate requiremen	s of Subsection G of 19.15.17.13 NMAC	
Operator Application Certification:		
I hereby certify that the information submitted with this application is	true accurate and complete to the hest of my knowledge and hel	ief
I nereby certify that the information submitted with this application is	the, accurate and complete to the best of my knowledge and ber	ici.
Name (Print): PHYLLIS A. EDWARDS	Title: REGULATORY ANALYST	
Signature: Les Co	levaelante: 7-1-08	
e-mail address: pedwards@conchoresources.com	Telephone: 432-685-4340	
OCD Approval: St Parmit Application (including closure plan)	Closure Plan (only)	
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	/ / _
	Closure Plan (only)  Approval Date:	15/08
OCD Representative Signature:	Approval Date: 7/	19/28
		1 <i>5/2</i> 8 34
OCD Representative Signature:  Title:	OCD Permit Number: PI-DO(3	15/08
OCD Representative Signature:	OCD Permit Number: PI-DD(3	1 <i>5/0</i> 8 34
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion):	OCD Permit Number: PI-DO(3	1 <i>5/8</i> 34
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion):  Closure Method:	OCD Permit Number: P   - DD   3  Subsection K of 19.15.17.13 NMAC  Closure Completion Date:	1 <i>5/8</i> 34
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion):  Closure Method:  Waste Excavation and Removal On-Site Closure Method	OCD Permit Number: P   - DD   3  Subsection K of 19.15.17.13 NMAC  Closure Completion Date:	1 <i>5/8</i> 34
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion):  Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.	Approval Date:  OCD Permit Number:  P - DDC  Subsection K of 19.15.17.13 NMAC  Closure Completion Date:  Alternative Closure Method	1 <i>5/8</i> 34
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Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the mark in the box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number	Approval Date:  OCD Permit Number:  P - DDC  Subsection K of 19.15.17.13 NMAC  Closure Completion Date:  Alternative Closure Method	34 ndicate, by a check
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## Closed Loop Operation & Maintenance Procedure

All drilling fluid circulated over shaker(s) with cuttings discharged into roll off container.

Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll off container.

Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.

Roll off containers are lined and de-watered with fluids re-circulated into system.

Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

This equipment will be maintained 24 hrs./day by solids control personnel and or rig crews that stay on location.

Cuttings will be hauled to either:

CRI (permit number R9166) or GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.

