Districe I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87

District III

District IV

State of New Mexico Winerals and Natural Resources Department

Oil Conservation Division

JUL 1 A 200 1220 South St. Francis Dr. Santa-Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or 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

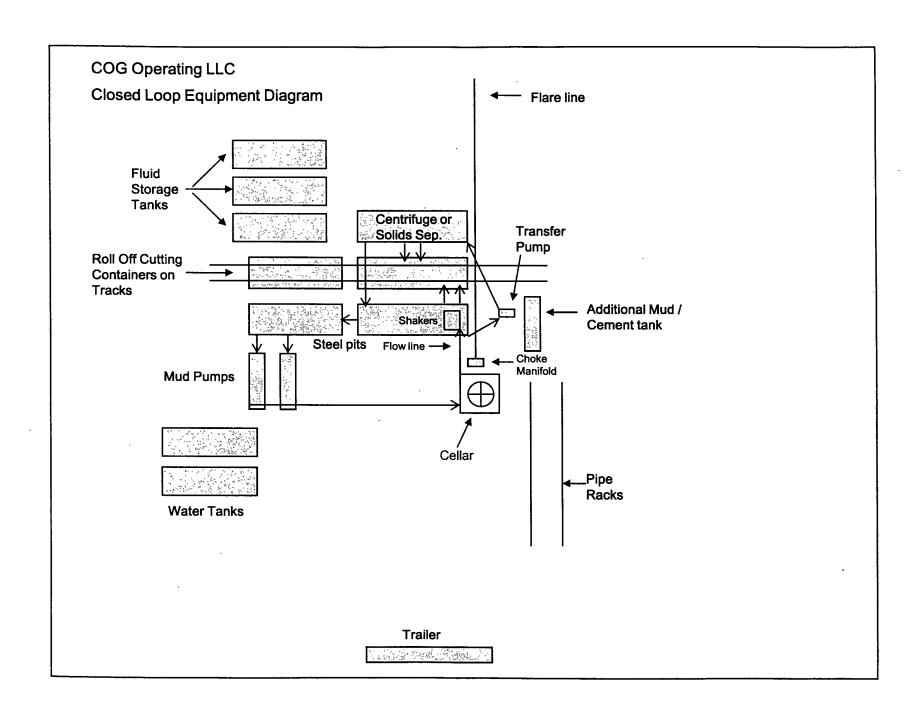
environment. Nor does approval relieve the operator of its responsibility to com	ply with any other applicable governmental authority's rules, regulations or ordinances.	
Operator: COG OPERATING LLC	OGRID #:	
Address: 550 WEST TEXAS, SUITE 1300 MIDLAND,	TX 79701	
Facility or well name: HERCULES FEDERAL #4H		
API Number: 30-005- 39076	OCD Permit Number: P - 0082	
U/L or Qtr/Qtr <u>UL P</u> Section <u>15</u> Township <u>15</u>	S Range 31E County: CHAVES	
Center of Proposed Design: Latitude N/A	LongitudeN/A NAD:1927	
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian 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:bblyd³	
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	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	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
of approval.	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.	

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.	
	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site] Yes □ No
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	Yes No
	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 search; Visual inspection (certification) of the proposed site	Yes No
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] Yes □ No
] Yes □ 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 No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NM. Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document attached. 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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.19 NMAC and 19.15.17.13 NMAC	ments are
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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 docum attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19. Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NM 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	.15.17.9

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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 a	locuments 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 ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ 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 Proposed Closure Method: Waste Excavation and Removal On-site Closure Method (only for temporary pits and closed-loop systems)	Alternative
☐ In-place Burial ☐ On-site Trench Burial	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for co	nsideration)
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	1
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.	
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	☐ Yes ☐ No ☐ NA
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 obtained from nearby wells	Yes No
Ground 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
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 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
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	☐ Yes ☐ No
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	☐ 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
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 ☐ No

	.17.13 NMAC) Instructions: Each of the following items must be attached	to the
closure plan. Please indicate, by a check mark in the box, that the		
Protocols and Procedures - based upon the appropriate requir	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drill	ling fluids and drill cuttings)	
Soil Backfill and Cover Design Specifications - based upon the	he appropriate requirements of Subsection H of 19.15.17.13 NMAC	1
Re-vegetation Plan - based upon the appropriate requirements		
Site Reclamation Plan - based upon the appropriate requirement	ents of Subsection G of 19.15.17.13 NMAC	
	Haul-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 cutt	74115 V L =	9
Disposal Facility Name: <u>CRI OR G M INC.</u> Disposal Facility	ty Permit Number: CKI (K5100) G M INC (711-015-004)	
	ns: Each of the following items must be attached to the closure plan. Plea	ise indicate,
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the	onneariate requirements of 10.15.17.10 NIMAC	
Proof of Surface Owner Notice - based upon the appropriate	requirements of Subsection F of 19.15.17.10 NMAC	
Construction and Design of Burial Trench (if applicable) bas	sed upon the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate require	ements of 19.15.17.13 NMAC	
☐ Confirmation Sampling Plan (if applicable) - based upon the ☐ Waste Material Sampling Plan - based upon the appropriate r	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
	ing fluids and drill cuttings or in case on-site closure standards cannot be acl	nieved)
Soil Cover Design - based upon the appropriate requirements		,
Re-vegetation Plan - based upon the appropriate requirements	s of Subsection I of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the appropriate requirement	ents of Subsection G of 19.15.17.13 NMAC	
Operator Application Certification:		
	is true, accurate and complete to the best of my knowledge and belief.	
Name (Print): PHYLLIS A. EDWARDS	Title: REGULATORY ANALYST	
a de la Ca	weel Date: 7-1-08	
Signature: They bles Ch - 200	e)	
e-mail address: pedwards@conchoresources.com	Telephone: 432-685-4340	
e-man address. <u>pedwards@conchoresources.com</u>	1 ciephone. 402-000-10-10	
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	
		(/6/
OCD Representative Signature:	Closure Plan (only) Approval Date:	6/08
OCD Representative Signature:	Approval Date:	6/08
OCD Representative Signature: Title: Geologist	OCD Permit Number: Approval Date: 0//0.	6/08
OCD Representative Signature:	OCD Permit Number: Approval Date: 0/0821 Subsection K of 19.15.17.13 NMAC	6/08
OCD Representative Signature: Title: Geologist	OCD Permit Number: Approval Date: 0//0.	6/68
OCD Representative Signature: Title: Geologist Closure Report (required within 60 days of closure completion): Closure Method:	OCD Permit Number: DOB 21 Subsection K of 19.15.17.13 NMAC Closure Completion Date:	6/68
OCD Representative Signature: Title: Geologist Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method	OCD Permit Number: DOB 21 Subsection K of 19.15.17.13 NMAC Closure Completion Date:	6/68
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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. 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 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with	Approval Date:	
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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.