District I 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

4326833152

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.

Santa Fe, NM 87505

JUN - 2 2009

Form C-144 July 21, 2008

For temporary pits, closed loop systems, and below-grade tanks, submit 10 the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental lureau 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 Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual plt, closed-loop system, below-grade tank or altern two request
clease 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator XOG operating, LC DORTD #. 236790
Address 1801 W. Texas
Facility or well name. <u>Catolaw 18-1</u>
API Number: 30-0/5-34574 OCD Permit Number. U/L or Qtr/Qtr P Section / 8 Township 2/5 Range 26 E County Eddy
U/L or Qtr/Qtr P Section 18 Township 215 Range 26 to County Eddy
Center of Proposed Design Latitude Longitude NAD: [1927] 1983
Surface Owner. Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17 11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness 2 mil LLDPE HDPE PVC Other String-Reinforced Liner Scanis: Welded Factory Other Silchio Volume: P&A Closed-loop System: Subsection H of 19.15.17 11 NMAC Type of Operation. P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Rule 50 Dermitteel

Oil Conservation Division.

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LOY#02-09-022

6.			
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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	. hospital,		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)			
Signs: Subsection C of 19 15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19 15.3.103 NMAC			
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for		
Siting Criteria (regarding perinitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria helow in the application. Recommendations of acceptable source material are provided helow. 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.			
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	Ycs No		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	☐ Ycs ☐ 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 helow-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No		
Within 1000 (cct 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; Acrial photo; Satellite image	☐ Yes ☐ No ☐ NA		
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 1009 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	☐ Ycs ☐ No		
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site	☐ Ycs ☐ 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		

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17. NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the locuments are
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 19.15.17.11 NMAC. Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 13 15.17.9 NMAC and 19.15 17.13 NMAC.
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 hox, that the a reuments are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17 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 (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 9 15.17.9 NMAC and 19.15.17 13 NMAC Previously Approved Design (attach copy of design) API Number Previously Approved Operating and Maintenance Plan API Number (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
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 di cuments 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 Dick 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 Leak Detection 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 Precedent and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17 11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Monitoring and Inspection Plan Erosion Control Plan Erosion Erosion Erosio
Proposed Closure: 19 15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pitt Below-grade Tank Closed-loop System Alternative Proposed Closure Method. Waste Excavation and Removal 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the clasure 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 F of 19 15.17.13 NMAC Disposal racility 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 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please Indentify the facility or facilities for the disposal of liquids,	Steel Tanks or Haul-off Bins Only: (19 15 17 13.1 drilling fluids and drill cuttings. Use attachment if	NMAC) tore than two
facilities are required.	- In III - In III	
Disposal Facility Name: CRI	Disposal Facility Permit Number;	
Disposal Faculity Name:	Disposal Facility Permit Number.	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	ccur on or in areas that will not be used for future ser-	ice and operations?
Required for Impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19 15 17.13 NMA Lof 19.15.17.13 NMAC	(
17. Siting Criteria (regarding on-site closure methods only): 19.15.17 10 NMAC Instructions: Each siting criteria regulres a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC)	e administrative approval from the appropriate dist. Bureau office for consideration of approval. Justi	r.ct office or may be
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
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 'eet 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 sig lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Acrial photo, Satellite		☐ Yeb No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or s NM Office of the State Engineer - WATERS database; Visual inspection (pring, in existence at the time of initial application] Yc₅ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality, Written approve		☐ Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l 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 Society; Topographic map 	& Mineral Resources; USGS, NM Geological	[] Yes No
Within a 100-year floodplain FEMA map		[] Yes No
On-Site Closure Plan Checklist. (19.15 17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of \$\text{Subsection F of 19.15.17 13 NMAC}\$ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15. 7.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15. 17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		

Operator Application Certification: I hereby certify that the information submitted with this application is true, accur-	ate and complete to the best of my knowledge and bel of.
Name (Print): Nack Hoob	Tille ENGINEER
Signature. July 25000	Datc. <u>5-29-09</u>
e-mail address. 1hood exogoperating. com	Telephone: 432 683 3171
OCI) Approval: Permit Application (including closure plan) Closure Pl	,
OCD Representative Signaturing By Mily Besselin	Approval Date: JUN 0 2 2009
Title: RNV. Spee	OCD Permit Number:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closure.	implementing any closure activities and submitting the closure report. e completion of the closure activities. Please do not complete this
21.	
Closure Method: Waste Excavation and Removal On-Site Closure Method Alterna If different from approved plan, please explain.	tive Closure Method Waste Removal (Closed-lot p systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drill two facilities were utilized.	
Disposal Facility Name.	Disposal Facility Permit Number:
Disposal Facility Name.	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) \(\Boxed{\Boxesia}\) No	in areas that will not be used for future service and openations?
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Secding Technique	ons.
Closure Report Attachment Checklist: Instructions: Each of the following ite mark in the hox, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Ar alytical Results (if applicable) Wasic 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 Longitu	
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure re- belief. I also certify that the closure complies with all applicable closure requirements.	port is true, accurate and complete to the best of my knot dedge and ents and conditions specified in the approved closure plan.
Name (Print).	Title.
Signature	Date,
e-mail address:	Telephone:

Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



Conditions of approval for closure of a drilling or work over pit

Notify OCD District 2 office 48 hours prior to commencement of closure activities.

Notify OCD District 2 office 48 hours prior to obtaining samples where analyses of samples obtained are to be submitted to OCD.

Sampling requirements are listed in 19.15.17.13 [NMAC] (Pit Rule)

Final closure report is to be submitted to OCD not later than 60 days after completion of closure.

Surface restoration per OCD/BLM requirements.



XOG OPERATING, LLC CATCLAW 18-1 API #30-015-34574 Unit P, Section 18, 21S, 26E Eddy County, NM

PIT CLOSURE PROCEDURE

Pit was de-watered after drilling and allowed to dry through natural evaporation.

OCD will be notified 24 hours before work begins. All waste will be dug out and hauled to CRI disposal facility (Permit #6). Samples will be taken after pit and waste have been removed to verify that soil standards have been met.

Nick Hood XOG Operating, LLC 432-683-3171 Office 432-664-9048 Cell 432-683-3152 Fax nhood@xogoperating.com