JAN - 5 2010

<u>District I</u> 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 State of New Mexico NMOCD ARTESIA
Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr. Santa Ea NEM 97505

Form C-144

July 21, 2008

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

	Santa Fe, NM 8/303 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 pit, closed-loop system, below-grade tank or alternative request
Δź	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 comply with any other applicable governmental authority's rules, regulations or ordinances.
1	Operator. XOG Operating, LLC. Address: 1801 W. TeX99 Midland, TX 79701 Facility or well name: Catclaw 9-00 API Number: 30-015-34574 OCD Permit Number: U/L or Qtr/Qtr
	Center of Proposed Design: Latitude Longitude NAD:1927 1983
	Surface Owner: Federal State Private Tribal Trust or Indian Allotment
*	[2
	Pit: Subsection F or G of 19.15,17.11 NMAC
	Temporary Drilling Workover
	Permanent Emergency Cavitation P&A
	Lined Unlined Liner type: Thickness 12 nul LLDPE HDPE PVC Other
	String-Reinforced Liner Seams: Welded Factory Fother Strong Volume: 4,000 bbl Dimensions: L 150 x W 110 x D 5
	3.
	Closed-loop System: Subsection H of 19.15.17 IT 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
	Liner Seams: Welded Factory Other
	4.
	Below-grade tank: Subsection [of 19.15.17.11 NMAC
	Volume:bbl Type of fluid:
	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 mul
	5
	☐ Alternative Method:
	Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Closure Completion 12/10/09 - Ruly 50 permitted

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 !9.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
8. Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" iettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3 103 NMAC	
9. 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 permitting): 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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of all Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.
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	Yes 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	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 ☐ NA
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	☐ 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 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
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 nune. - 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 NMAC Instructions: Each of the following irems must be attached to the application. Please indicate, by a check mark in the box, that the documents 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 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 box, that the documents 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 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 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 documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (i) 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 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 Muisance or Hazardous Odors, including H ₂ 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 Instructions: Please complete the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit 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 Fc 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 closure 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 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 Re-vegetation 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 Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) more than two
Disposal Facility Name	
Disposal Facility Name Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) \(\subseteq \) No	
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA 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	c
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 soun provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict 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 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 significant watercourse or 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure publy 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 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 Protocols and Procedures - oased 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 cand Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:	1	
Name (Print):	with this application is true, accurate and complete the first true.	
Signature: Juin Z	OGO Dat	
e-mail address:	Telepho	one:
20. OCD Approval: Pennit Application (incl	uding closure plan) [Closure Plan (only) [OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permi	t Number:
Instructions: Operators are required to obtain The closure report is required to be submitted	to the division within 60 days of the completion plan has been obtained and the closure activitie	ig any closure activities and submitting the closure report of the closure activities. Please do not complete this
Closure Method: Waste Excavation and Removal On-	Site Closure Method	Method
Instructions: Please indentify the facility or f two facilities were utilized. Disposal Facility Name: Disposal Facility Name:	Disposal Factionists described activities performed on or in areas that we	Ahove Ground Steel Tanks or Haul-off Bins Only: I drill cuttings were disposed. Use attachment if more that cility Permit Number:
Required for impacted areas which will not be Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Set	used for future service and operations: 1)	
Closure Report Attachment Checklist: Instrumerk in the box, that the documents are attact Proof of Closure Notice (surface owner) Proof of Deed Notice (required for on-sic) Plot Plan (for on-site closures and tempe) Confirmation Sampling Analytical Resurbased Material Sampling Analytic	ched. and division) ite closure) orary pris) elts (if applicable) sults (required for on-site closure) ober eding Technique	NAD: 1927 1983
Operator Closure Certification: I hereby certify that the information and attach belief. I also certify that the closure complies: Name (Print): Signature:	with all epol cable closure requirements and cond	ENGINEER
e-mail address:	Telepho	one:
Acce	pted for record NMOCD JAN 1.1 2010	

Fecta C-144

Oil Conservation Division

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JAN -5 2010

NMOCD ARTESIA

PIT REMEDIATION AND CLOSURE REPORT

XOG OPERATING, LLC.
CATCLAW 18 #001, API: 30-015-34574
EDDY COUNTY, NEW MEXICO

Prepared For:

XOG OPERATING, LLC. 1801 W. TEXAS AVENUE MIDLAND, TEXAS 79701

Prepared By:

SOUTH ENVIRONMENTAL SERVICES, INC 2400 S. LOOP 250 WEST MIDLAND, TEXAS' 79703

DECEMBER 2009

A Report Prepared for:

XOG OPERATING, LLC. 1801 W. TEXAS AVENUE MIDLAND, TEXAS 79701 RECEIVED

JAN -5 2010

NMOCD ARTESIA

PIT REMEDIATION AND CLOSURE REPORT

Prepared by:

Ronnie W. Nickell

SOUTH ENVIRONMENTAL SERVICES, INC 2400 S. LOOP 250 WEST MIDLAND, TEXAS 79703

DECEMBER 2009

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December 10, 2009

Mr. Mike Bratcher Oil Conservation Division 1301 West Grand Avenue Artesia, NM 88210

RE: Pit Remediation and Closure Report
Catclaw 18 #001, API #: 30-015-34574
Excavation and Remediation of Impacted Soil
Eddy County, New Mexico

1.0 INTRODUCTION

On behalf of XOG Operating, LLC. (XOG), South Environmental Services, Inc. (SES) is pleased to submit this Pit Remediation and Closure Report for the site known as Catclaw unit 18 #001 Lease, API: 30-015-34574, Eddy County, New Mexico (the site). This report presents the results of the remedial actions performed at the above referenced site.

1.1 Purpose of Report

The purpose of this report is to present a summary of the completed field activities and results of remedial actions performed in order to facilitate regulatory closure of this site.

2.0 PROTOCOLS AND PROCEDURES

2.1 Pit Remediation and Closure Activities

As illustrated in the attached Figures, the Excavation and Backfill procedures followed all applicable protocols and rules outlined in 19.15.17.10 NMAC. All liquids were removed prior to excavation process and 3,044 cubic yards of the contaminated soil was hauled to the Controlled Recovery, Inc. (CRI). South Environmental Services, Inc. took special care to ensure all impacted soils were included in the excavation and disposal. As outlined an approved state disposal facility was utilized for waste disposal. Confirmation sampling took place to ensure no impacted soil had been left in place. The pit was lined with a twelve (12) mil stitched liner. All backfilled material was appropriate soil, clean and compacted. Re-Vegetation and Site Remediation procedures were followed.

3.0 CONFIRMATION SAMPLING

As illustrated in the attached figures, confirmation sampling took place after impacted material had been disposed of. The confirmation samples were taken for each quadrant (North, South, East, and West) of the main reserve pit and a sample from the center of the main reserve pit. Multiple sampling events were conducted on May 20, 2009 thru September 17, 2009. The confirmation samples (NW, SW, CENTER, and NE) were analyzed for chlorides using EPA METHOD 4500. Confirmation sampling locations are depicted in Attachment 2, Figure 2.

4.0 DISPOSAL FACILITY NAME AND PERMIT NUMBER

Controlled Recovery, Inc. Disposal, Permit #: NM R-9166

5.0 SOIL BACKFILL AND COVER DESIGN SPECIFICATIONS

A twenty (20) mil cap was installed in the bottom of the pit to meet OCD requirements. The soil cover is an adequate backfill material, compacted and non-waste containing, from top to cap (<4' below surface ground) to >1' below ground surface and topsoil to surface grade.

6.0 RE-VEGETATION

The re-vegetation took place with a minimum of 70% native perennial vegetative cover consisted of at least 3 native plant species, including at least one grass and no noxious weeds. Cover will be maintained through 2 successive growing seasons.

7.0 RECOMMENDATIONS

Based on the findings and results of the remedial actions described herewith, South Environmental request the OCD's concurrence that the site meets the conditions for final site closure, thus requiring no further corrective action by XOG Operating. Upon OCD approval, the site will be restored as near as possible to the original site conditions as set out below.

- The former pit area will be backfilled with native soils to the original elevation and contours of the surrounding land.
- The disturbed soils in the native pasture areas will be tilled and seeded to help minimize erosion and re-establish natural plant growth.

8.0 QA/QC PROCEDURES

8.1 Soil Sampling

Samples of subsurface soils were obtained utilizing proper EPA protocols and/or standards. Representative soil samples were collected using clean, disposable gloves and clean sampling tools. The soil sample was then placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling and transportation process.

Soil samples were delivered to Cardinal Laboratories in Hobbs, NM for Chloride analyses using the methods described below. Soil samples were analyzed for Chlorides within fourteen days following the collection date.

The soil samples were analyzed as follows:

1. Chloride concentrations in accordance with Method 4500-Cl-B.

8.2 Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

9.0 LIMITATIONS

South Environmental Services, Inc. has prepared this Pit Remediation and Closure Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

South Environmental Services, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. South Environmental Services, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. South Environmental Services, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. South Environmental Services, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of XOG Operating, LLC. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of South Environmental Services, Inc. and/or XOG Operating, LLC.

Thank you for the assistance in this matter. If you have any questions or require additional information, please contact me at 432-425-8454.

Sincerely, SOUTH ENVIRONMENTAL SERVICES, INC.

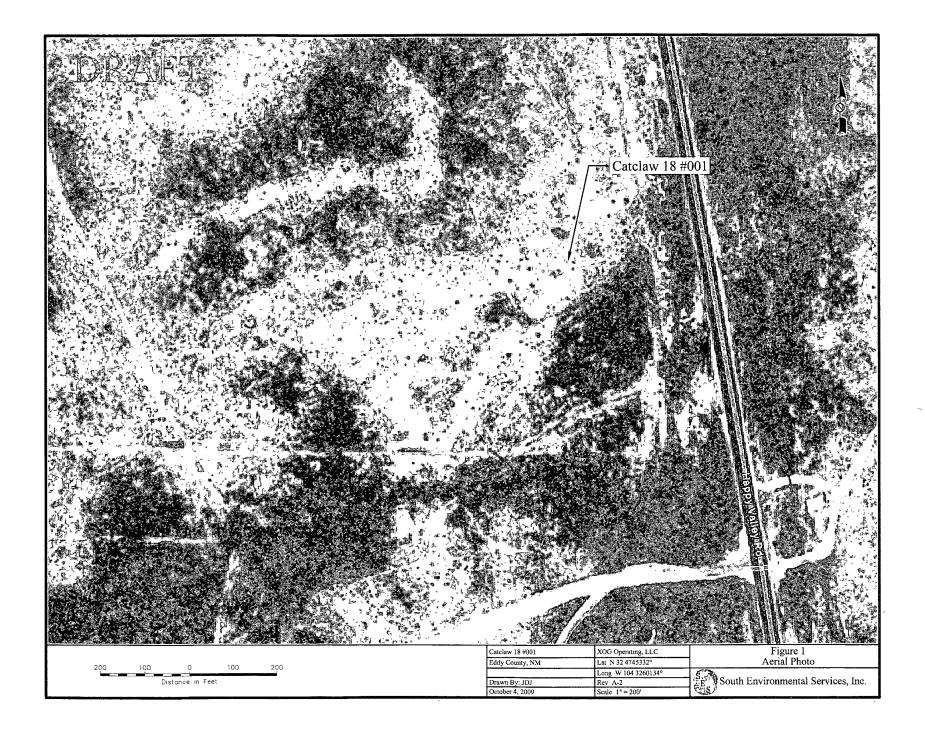
Ronnie W. Nickell Sr. Project Manager

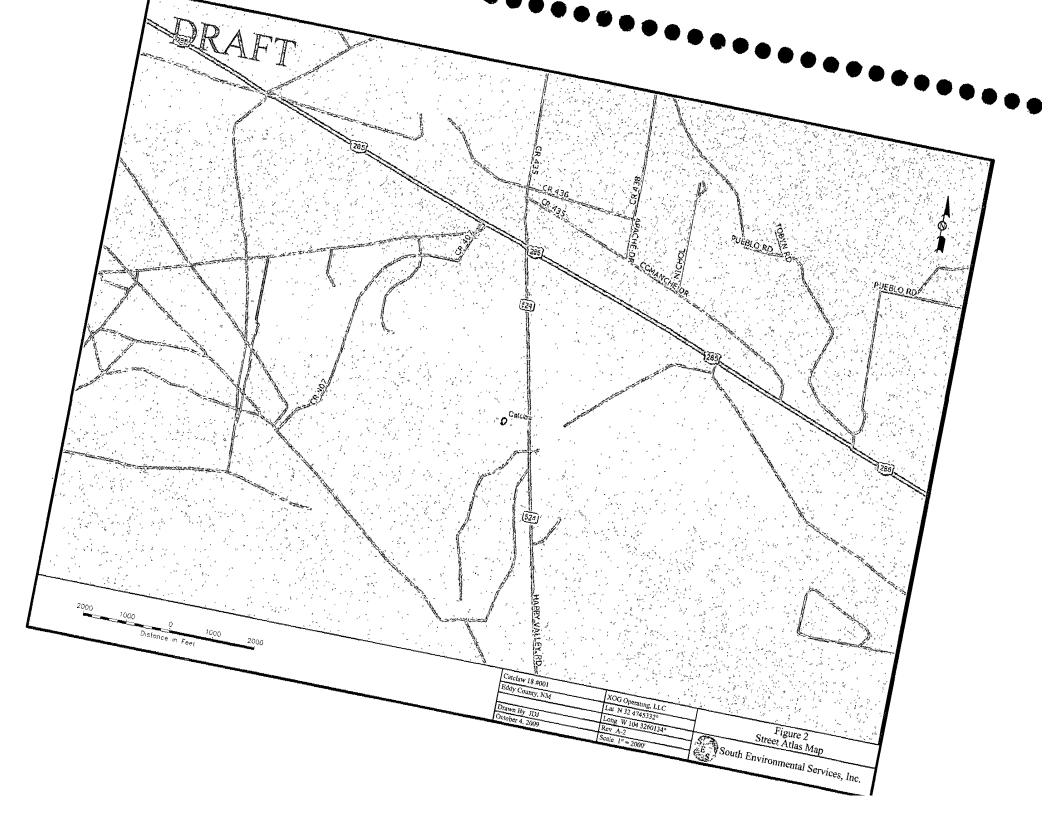
Cc: XOG Operating, LLC, Midland, Texas

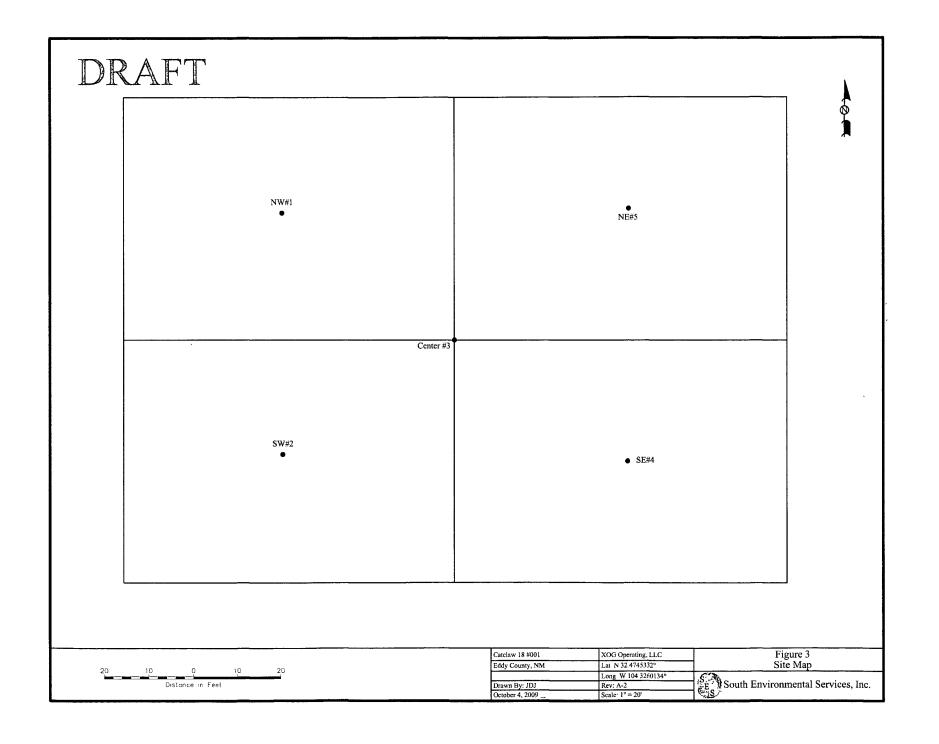
ATTACHMENTS

ATTACHMENT 1

SITE FIGURES

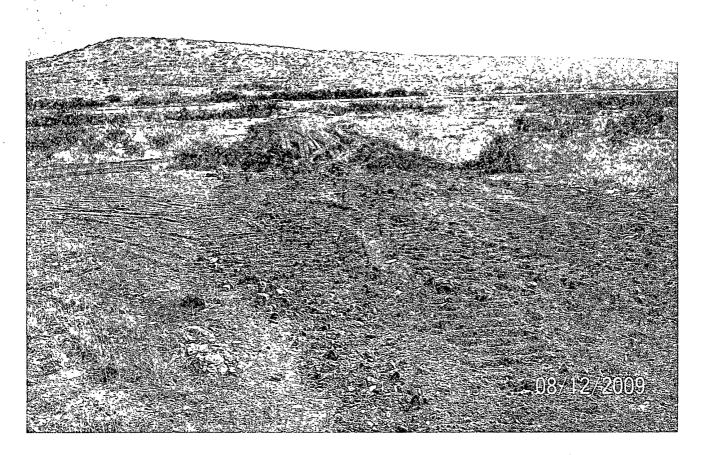




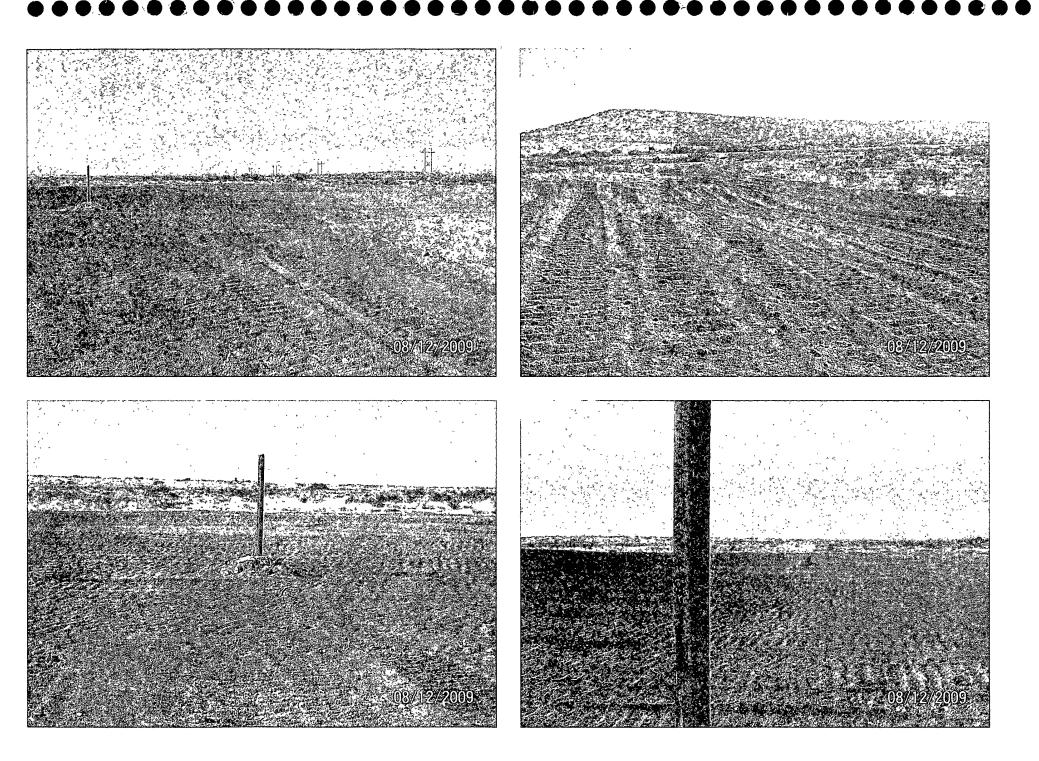


ATTACHMENT 2

SITE PHOTOGRAPHS







ATTACHMENT 3 LABORATORY ANAYLSIS REPORTS



XOG

ATTN: JAMES MANN

P.O BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 393-3615

Analysis Date: 06/09/09 Sampling Date: 05/20/09 Sample Type: SOIL

Sample Condition: INTACT @ 24°C

Sample Received By: AB

Analyzed By: CK

Receiving Date: 05/20/09
Reporting Date: 06/09/09
Project Owner: NOT GIVEN
Project Name: CAT CLAW

Project Location: CARLSBAD, NM

Lab Number: H17460-1

Sample ID: PIT

TCLP SEMIVOLATILES (mg/L)	EPA LIMIT	Sample Result H17460-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.014	<0.010	0.024	121	0.020
1,4-Dichlorobenzene	7.50	< 0.007	<0.005	0.029	145	0.020
o-Cresol	200	<0.014	< 0.010	0.023	115	0.020
m, p-Cresol	200	<0.007	<0.005	0 025	125	0.020
Hexachloroethane	3.00	< 0.007	<0.005	0.025	125	0.020
Nitrobenzene	2.00	<0.007	<0.005	0.022	110	0.020
Hexachloro-1,3-butadiene	0.500	< 0.014	<0.010	0.025	125	0 020
2,4,6-Trichlorophenol	2.00	< 0.007	<0.005	0.020	97.5	0.020
2,4,5-Trichlorophenol	400	<0.007	<0.005	0.022	110	0.020
2,4-Dinitrotoluene	0.130	< 0.011	<0.008	0.019	95.0	0.020
Hexachiorobenzene	0.130	<0.007	<0.005	0.024	120	0.020
Pentachlorophenol	100	<0.029	<0.020	0.024	120	0.020

% RECOVERY

Fluorophenol	15.8
Phenol-d5	8.38
Nitrobenzene-d5	43.9
2-Fluorobiphenyl	24.7
2,4,6-Tribromophenol	21.2
Terphenyl-d14	49.2

METHODS: EPA SW-846 1311, 8270, 3510

06/10/09 Date



XOG

ATTN: JAMES MANN

P.O. BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 393-3615

Receiving Date: 05/20/09 Reporting Date: 06/09/09 Project Owner: NOT GIVEN

Project Name: CAT CLAW

Project Location: CARLSBAD, NM

Sample ID: PIT

Lab Number: H17460-1

Analysis Date: 06/03/09

Sampling Date: 05/20/09

Sample Type: SOIL

Sample Condition. INTACT @ 24°C

Sample Received By: AB

Analyzed By: JH

TCLP

VOLATILES - 8260 (mg/L)		EPA LIMIT	Sample Result H17460-1	Method Blank	QC	%Recov.	True Value QC
1	Vinyl chloride	0.20	<0.20	<0.20	9.6	96	10.0
2	1,1-Dichloroethene	0.7	<0 20	<0.20	9.0	90	10.0
3	Chloroform	6.0	<0.20	<0.20	9.2	92	10.0
4	Carbon tetrachloride	0.5	<0 20	<0.20	10.0	100	10.0
5	2-Butanone	200	<1.0	<10	47.9	96	50.0
6	Benzene	0.5	<0.20	<0.20	8.8	88	10.0
7	1,2-Dichloroethane	0.5	<0.20	<0.20	11.1	111	10.0
8	Trichloroethene	0.5	<0.20	<0.20	9.2	92	10.0
9	Tetrachloroethene	0.7	<0.20	<0.20	8.9	89	10.0
10	Chlorobenzene	100	<0.20	. <0.20	10.1	101	10.0
11	1,4 Dichlorobenzene	7.5	<0.20	<0.20	9.0	90	10.0

Surrogates	%Recovery
1,2 Dichloroethane-d4	92
Toluene-d8	89
4-Bromofluorobenzene	. 88

METHODS: EPA SW-846-1311/8260.

*Note: Analysis subcontracted to Ask Laboratories. Inc.

Chemist

Date

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XOG

ATTN: JAMES MANN

P.O. BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 393-3615

Analysis Date: 06/09/09 Sampling Date: 05/20/09 Sample Type: SOIL

Sample Condition: INTACT @ 24°C

Sample Received By: AB

Analyzed By: CK

Lab Number: H17460-2

Receiving Date: 05/20/09

Reporting Date: 06/09/09

Project Name: CAT CLAW

Project Owner: NOT GIVEN

Project Location: CARLSBAD, NM

Sample ID. BG

TCLP SEMIVOLATILES (mg/L)	EPA LIMIT	Sample Result H17460-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.015	<0.010	0.024	121	0.020
1,4-Dichlorobenzene	7.50	<0.008	<0.005	0.029	145	0.020
o-Cresol	200	<0.015	<0.010	0.023	115	0.020
m, p-Cresol	200	<0.008	<0.005	0.025	125	0.020
Hexachloroethane	3.00	<0.008	<0.005	0.025	125	0.020
Nitrobenzene	2.00	<0.008	<0.005	0.022	110	0.020
Hexachloro-1,3-butadiene	0.500	<0.015	<0.010	0.025	125	0.020
2,4,6-Trichlorophenol	2.00	<0.008	<0.005	0 020	97.5	0.020
2,4,5-Trichlorophenol	400	<0.008	<0.005	0.022	110	0.020
2,4-Dinitrotoluene	0.130	<0.012	<0.008	0 019	95.0	0.020
Hexachlorobenzene	0.130	<0.008	<0.005	0.024	120	0.020
Pentachlorophenol	100	<0.030	<0.020	0.024	120	0.020

% RECOVERY

Fluorophenol	15.9
Phenol-d5	10.3
Nitrobenzene-d5	46.4
2-Fluorobiphenyl	27.8
2,4,6-Tribromophenol	27.4
Terphenyl-d14	49.0

METHODS: EPA SW-846 1311, 8270, 3510

, N

Date

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XOG

ATTN: JAMES MANN

P.O. BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 393-3615

Receiving Date: 05/20/09 Reporting Date: 06/09/09 Project Owner: NOT GIVEN Project Name: CAT CLAW

Project Location: CARLSBAD, NM

Sample ID: BG

Lab Number: H17460-2

Analysis Date: 06/03/09 Sampling Date: 05/20/09 Sample Type: SOIL

Sample Condition: INTACT @ 24°C

Sample Received By: AB

Analyzed By: JH

T	C	L	Ρ

VOLATILES - 8260 (mg/L)		EPA LIMIT	Sample Result H17460-2	Method Blank	QC	`%Recov	True Value QC
			*********		~~	75, 1555	
1	Vinyl chloride	0.20	<0.20	<0.20	9.6	96	10.0
2	1,1-Dichloroethene	0.7	<0.20	<0.20	9.0	90	10.0
3	Chloroform	6.0	<0.20	<0.20	9.2	92	10.0
4	Carbon tetrachloride	0.5	<0.20	<0.20	10.0	100	10.0
5	2-Butanone	200	<1.0	<1.0	47.9	96	50.0
6	Benzene	0.5	<0.20	<0.20	8.8	88	10.0
7	1,2-Dichloroethane	0.5	<0.20	<0.20	11.1	111	10.0
8	Trichloroethene	0.5	<0.20	<0.20	9.2	92	10.0
9	Tetrachloroethene	0.7	<0.20	<0.20	8.9	89	10.0
10	Chlorobenzene	100	<0.20	<0.20	10.1	101	10.0
11	1,4 Dichlorobenzene	7.5	<0.20	<0.20	9.0	90	10.0

Surrogates	%Recovery
1,2 Dichloroethane-d4	90
Toluene-d8	87
4-Bromofluorobenzene	91

METHODS: EPA SW-846-1311/8260.

Chemist

06/10/09

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^{*}Note: Analysis subcontracted to Ask Laboratories. Inc.



(575) 393-2326 Fax (575) 393-2476		Pageor			
Company Name: XOC Operating	BILL TO	ANALYSIS REQUEST			
Project Manager: James	P.O. #:				
Address: POBx 35 Z	Company: χ /) G				
City: M, 2/64 State: 72 Zip: 79702	Attn:				
Phone #: 437-683-3171 Fax #:	Address:				
Project #: Project Owner:	city: M. dland				
Project Name: Ca+ Cla W	State: Zip:				
Project Location: Carlshad Sampler Name: Mille Willer U	Phone #:				
Sampler Name: Mille Willer W	Fax #:				
Tap.I.D. Continuers Continue	PRESERV. SAMPLING CHERRY. CHERY. CHERRY. CHERRY. CHERRY. CHERRY. CHERRY. CHERRY. CHERRY. CHERRY				
PLEASE NOTE: Labelity and Damages. Cardinal's liability and client's exclusive temedy for any claim arising whether based in control analyses. All claims including those for negligence and any other cause whatsoever shall be deemed warred unless made in writing at service. In no event shall Cardinal be lable for incidental or consequential damages, including without limitation, business intorruptions, alfillates or successors arising out of or related to the parformance of services hereunder by Cardinal, regardless of whether such claims Sampler Relinquished: Date: Received By: Time: Time:	nd received by Cardinal within 30 days after completion of t , toes of use, or toss of profits incurred by client, its subsidia	he applicable			
Relinquished By: Date: Réceived By: Time: Delivered By: (Circle One) Temp. Sample Condi	tion CHECKED BY	Fat COBX to XOG 1) 11 892-4182 11 CRI390-3615			
Sampler - UPS - Bus - Other: + Z (o ZU, V Cool Intact	es (Initials)	11 CKI 393-3615			
† Cardinal cannot accept verbal changes. Please fax written changes to	575-393-2476.	•			



August 13, 2009

Nick Hood XOG Operations, LLC P.O. Box 352 Midland, TX 79702

Re: Cat Claw

Enclosed are the results of analyses for sample number H17982, received by the laboratory on 08/13/09 at 9:15 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely

Celey D. Keene Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR XOG OPERATIONS, LLC ATTN: NCK HOOD

P.O. BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 746-6534

Receiving Date: 08/13/09 Reporting Date: 08/13/09 Project Owner: XOG

Project Name: CAT CLAW

Project Location: EDDY CO.

Analysis Date: 08/13/09 Sampling Date: 08/13/09 Sample Type: SOIL

Sample Condition: INTACT @ 28°C

Sample Received By: CK

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	(mg/kg)
H17982-1	NW #1	688
H17982-2	SW #2	8,720
H17982-3	CENTER #3	7,800
H17982-4	SE #4	1,740
H17982-5	NE #5	208
Quality Con	trol	500
True Value	True Value QC	
% Recovery		100
Relative Pe	rcent Difference	< 0.1

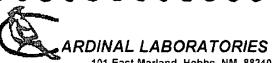
METHOD: Standard Methods 4500-Note: Analyses performed on 1:4 w:v aqueous extracts.

hemist

Date

H17982 XOG

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		Page of
Company Name: XOB operations LLC	BILL TO	ANALYSIS REQUEST
Project Manager: Nick Hood	P.O. #:	
Address: Mid land	Company: South	
City: State: TX Zip: 79701	Attn: Environmental	
Phone #: Fax #:	Address: Services	
Project #: 【8~ひらし Project Owner: 💢 🖔 🤤	City:	
Project Name: CAT Claw	State: Zip:	
Project Location: Eddy, CO	Phone #:	_
Sampler Name: FELIX Movem	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	- '
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Sample I R Z Z Z Z	ij z	
	OTHER: OTHER: OTHER: OTHER: OTHER:	19
(G)RAB # CONT. WWASTEL SOIL	MIT STAD DATE TIME	
H17982-1 NWHI X	8/11/09 7:304	
-2 Sw # 2 X X	785 AM	
-3 Cenu #3 X	7:40am	
	7:45Am	
NE 女5 X X	Y 7:56AN	
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service. In no eyent shall Cardinal, bis liable for incidental or consequental damages, including without limitation, business interruptions affiliates or seccessors assing out of or related to the performance of services hareunder by Cardinal, regardless of whether such clair	s, loss of use, or loss of profits incurred by client, its subsidi	orias,
Sampler Relinituished: Date: Received By:	Phone R Fax Resi	
Tinto 5 Am	REMARK	(S:
Relinquished By: Date: Received By:	1,	Cell Bill Box 575 920-6120
Time:	Neonal	FAX to 432 682-4182
Delivered By: (Circle One) Temp. Sample Sond	Ition CHECKED BY:	and the same of th
Sampler - UPS - Bus - Other:	es (Indials)	0, cl

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



September 17, 2009

Nick Hood XOG Operations, LLC P.O. Box 352 Midland, TX 79702

Re: Cat Claw

Enclosed are the results of analyses for sample number H18259, received by the laboratory on 09/16/09 at 11:10 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021.

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely.

Celey D Reene

Laboratory Director



ANALYTICAL RESULTS FOR XOG OPERATIONS, LLC ATTN: NCK HOOD P.O. BOX 352

MIDLAND, TX 79702

FAX TO: (432) 682-4182 & (575) 746-6534

Receiving Date: 09/16/09
Reporting Date: 09/16/09
Sampling Date: 09/16/09
Project Number: 18-001
Sample Type: SOIL

Project Name: CAT CLAW Sample Condition: INTACT @ 22.5°C

Project Location: EDDY Sample Received By: ML

Analyzed By: HM

		Cl
LAB NO.	SAMPLE ID	(mg/kg)
H18259-1	#1 SE	2,800
H18259-2	#2 SW	3,880
H18259-3	#3 NW	416
H18259-4	#4 NE	64
H18259-5	#5 C	48
Quality Con	trol	500
True Value	QC	500
% Recovery	/	100
Relative Pe	Relative Percent Difference	

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist/

Date

H18259 XOG

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

Company Name: X 69 0 / Evations	BILL TO	ANALYSIS REQUEST		
Project Manager:	P.O. #:			
Address: PO Box 352	Company:			
City: Midland State: TX Zip: 79/02	Attn:			
Phone #: Fax #:	Address: 11 + MIN			
Project #: 18-001 Project Owner.	City, XITA ELVIYO			
Project Name: Ca+ (IUW)	State: Zip: White			
Project Location: としと	Phone #:			
Sampler Name: Fuix M	Fax #:]_4		
Lab I.D. Sample I.D. Controller Control	9210/04 9 AM C1:070 O1:10 AM C1:070 AM C1:070 AM C1:070 AM C1:10 A			
naulyses All claims including mass for negligence and any other cause whatsoover shall be deemed waived unless made in writing an service. In recovery shall Caffornal be liable for incidental or consequental damages, including without limitation, business interruptions. Brambler Received By: Date: Received By:	nd received by Cardinal within 30 days after completion of t , loss of use, or loss of profits incurred by client, its subsidia	no applicable rises. 20 20 21:		
Time: Delivered Bv. (Circle One) Sample Condit Cool Intact Sampler - UPS - Bus - Other: 775° □ Yes □ Yes	tion : CHECKED BY: Injitials	432 - 682-4182 Phone - B.11BOX 9.60-6120		

Page____ of ___

#26

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ATTACHMENT 4

CLOSURE PLAN APPLICATION C-144

WASTE EXCAVATION AND REMOVAL CLOSURE PLAN

DRILLING RESERVE PIT PIT CLOSURE PLAN

Catclaw Unit 18 #001 Eddy County, New Mexico

Prepared for:

XOG Operating, LLC.

API Well #30-015-34574

Prepared by:

South Environmental Services, Inc.

MAY 2009

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5.0	SOIL	BACKFILL AND COVER DESIGN AND SPECIFICATIONS	13
6.0	RE-VE	EGETATION PLAN	2
7.0	SITE F	RECLAMATION PLAN	2
FIGUF FIGUF		Site Aerial Photograph Site Topographic Map	

1.0 INTRODUCTION

On behalf of XOG Operating, LLC., South Environmental Services, Inc. has prepared this Closure Plan in compliance with the Oil Conservation Districts (OCD) regulations. The site is located approximately 0.8 miles Southeast of Hwy. 524 in Eddy County, New Mexico.

2.0 PROTOCOLS AND PROCEDURES

The Excavation and Backfill procedures shall follow all applicable protocols and rules outlined in 19.15.17.10 NMAC. All liquids will be removed prior to excavation process and the in place soil will be hauled to Controlled Recovery, Inc. (CRI). South will take special care to ensure all impacted soils are included in the excavation and disposal. As outlined an approved state disposal facility will be utilized for waste disposal. Confirmation Sampling shall take place to ensure no impacted soil has been left in place. All backfill material will be appropriate soil, clean and compacted. Re-Vegetation and Site Reclamation procedures will be followed according to NMOCD Rules as outlined below.

3.0 CONFIRMATION SAMPLING PLAN

Confirmation sampling shall take place after impacted material has been disposed of to a state disposal facility (CRI). The confirmation samples shall be taken for each quadrant (North, South, East, and West) as well as the center. If a confirmation sample results do not meet regulatory requirements, a supplemental plan will be established to address the results.

4.0 DISPOSAL FACILITY NAME AND PERMIT NUMBER

Controlled Recovery Recovery, Inc. Disposal, Permit #: NM R-9166

5.0 SOIL BACKFILL AND SPECIFICATIONS

The cover soil shall be an adequate backfill material, compacted and non-waste containing, from top of cap (>4' below ground surface) to >1' below ground surface and topsoil to surface grade.

6.0 RE-VEGETATION PLAN

The re-vegetation shall take place with a minimum of 70% native perennial vegetative cover consisting of at least 3 native plant species, including at least one grass and no noxious weeds. Cover shall be maintained through 2 successive growing seasons.

7.0 SITE RECLAMATION PLAN

Site reclamation will be accomplished through several steps. The original surface grade will be established with both the original reserve pits and the burial trench and revegetation, will take place as described above. Additionally, site photo documentation will be submitted upon closure request to show that proper surface measures have been taken to ensure the site is brought back, as much as possible, to its condition before surface activity took place.