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

# State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 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
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
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.
Operator. ELM RIDGE EXPLORATION COMPANY, LLC OGRID #: 149052
Address: P.O. BOX 156, BLOOMFIELD, NM 87413
Facility or well name: BADLANDS FEDERAL COM 12 #3
API Number: 30-045-33833 OCD Permit Number:
U/L or Qtr/Qtr O Section 12 Township 25 N Range 13 W County: SAN JUAN
Center of Proposed Design. Latitude 36.410934° N Longitude 108.168269° W NAD: □1927 ☑ 1983
Center of Proposed Design. Latitude 36.410934' N Longitude 108.168269' W 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   Dill CONS. DIV. DIST. 3   Dill CONS. DIV. DIST. DILL DIST. DILL DILL DILL DILL DILL DILL DILL DIL
Temporary: ☑ Drilling ☐ Workover
□ Permanent □ Emergency □ Cavitation □ P&A
☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
⊠ String-Reinforced
Liner Seams: Welded Factory Other Volume: 9.939 bbl Dimensions: L 160' x W 40' x D 10'
3.  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)
Driving Pad Above Ground Steel Tanks Above Ground Steel Tanks Above Ground Steel Tanks Off Rive Other
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Drying Pad   Above Ground Steel Tanks   Hauf-off Bins   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other   RECEIVED
4. DEC 2008
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume:
Tank Construction material:
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other  Liner type: Thicknessmil ☐ HDPE ☐ PVC ☐ Other
Liner type: Thicknessmıl
Liner type: Thicknessmıl

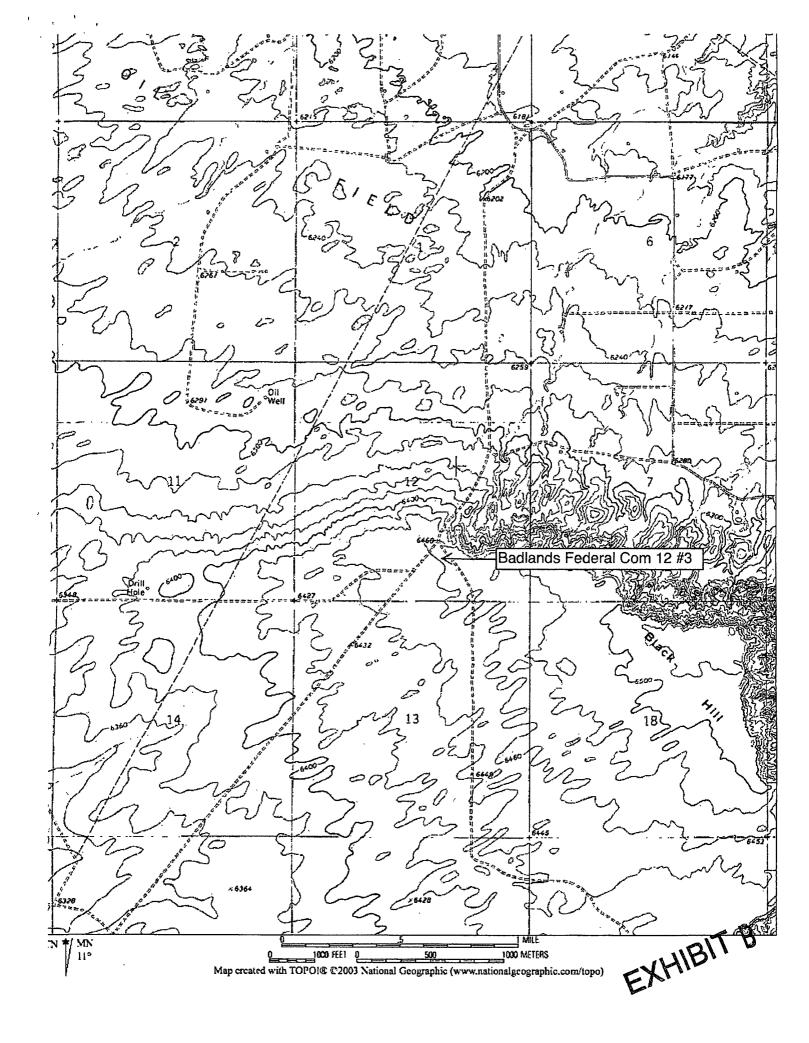
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hosp institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify minimum 36" hog wire topped with at least 1 strand of barbed wire = at least 48" high fence					
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Notting 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   See request for alternate marking on Page 2 of attachment   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 office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of 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.					
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				
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				
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 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 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 (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 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 19.15.17.11 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 19.15.17.9 NMAC and 19.15.17.13 NMAC   Previously Approved Design (attach copy of design)   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)  API Number: (Applies only to closed-loop system that use
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 (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   Certifice 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   Lak 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   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 Pit   Below-grade Tank   Closed-loop System   Alternative
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 Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.						
Disposal Facility Name:	Disposal Facility Permit Number:					
Disposal Facility 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						
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 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						
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.						
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Dat	a 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, Dat	a obtained from nearby wells	☐ Yes ⊠ No ☐ NA				
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Dat	a obtained from nearby wells	⊠ Yes □ No □ NA				
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						
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						
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						
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approx	•	☐ Yes ⊠ No				
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visu	al 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	g and Mineral Division	☐ Yes 🖾 No				
Within an unstablé area Engineering measures incorporated into the design, NM Bureau of Geolog Society; Topographic map	y & 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 Subsection F of 19.15.17.13 NMAC See 10. on APD Page 9 (Exhibit K)  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 19.15.17.13 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 H 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, accurate and complete to the best of my knowledge and belief.							
Name (Print): BRIAN WOOD Title: CONSULTANT							
Signature:   Date: 11-29-08							
e-mail address: brian@permitswest.com Telephone (505) 466-8120							
20.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)							
OCD Representative Signature: B & B & Approval Date: 12-11-08							
Title: Eusinkspec OCD Permit Number:							
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report.  The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.							
☐ Closure Completion Date: July 15, 2009							
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.							
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:							
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than 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 in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below) \( \subseteq \) No							
Rejuired for impacted areas which will not be used for future service and operations  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique							
24.							
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)							
Proof of Deed Notice (required for on-site closure) Navase Reservation, NA Plot Plan (for on-site closures and temporary pits) see a the head							
Confirmation Sampling Analytical Results (if applicable) See a flacked 11 1							
Disposal Facility Name and Permit Number NA d , d							
Soil Backfilling and Cover Installation Sec a factor							
Re-vegetation Application Rates and Seeding Technique see a facted  Site Reclamation (Photo Documentation) See a facted							
On-site Closure Location: Latitude 36/410934 Longitude -108.168269 NAD: 1927 2 1983							
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.							
Name (Print): Ms Jany Makkey Title: Administrative Manager							
Name (Print): Ms Amy Mackey  Signature: Date: 10-22-09							
e-mail address:							
Approved Beard Sed NMOCD 11/3/09							
Porto 141 Page 3 of 5							

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Elm Ridge Exploration Badlands Federal COM 12 #3 Closure Date: July 15, 2009 Project No. 03056-0225

#### **Drill Pit Closure Checklist**

- 1) An alternative interim marking system will be used to allow for safer and more efficient operations. A minimum 4" O.D. steel pipe will be set at least 36" deep at the center of the pit. A threaded collar will be on the top of the pipe. A minimum 12" x 12" steel plate will be welded atop the threaded collar. The top of the plate will be flush with ground level. The standard location information listed will be welded onto the plate, plus a notation that it marks an on-site buried, temporary pit. Upon plugging the well, the plate will be removed, and the pit will be marked as described in 19.15.17.13.F(1)(d).

  See attached photo for on-site temporary ground-level marker. In ground marker will be
  - See attached photo for on-site temporary ground-level marker. In ground marker will be replaced by a division approved four (4) foot riser upon P&A of this well location. Information welded onto the marker will include: Elm Ridge Exploration, Lease #NMNM-33917, Badlands Federal COM 12 #3, UL O, Sec. 12, Twn. 25N, Rng. 13W, on-site burial and the date.
- 2) Elm Ridge Exploration will close the pit in accordance with OCD rules 19.15.17.12 &13. Post closure documents will be submitted within 60 days of pit closure and will include forms C-105 and C-144, cover details, pit diagram, inspection report and closure sampling results.

  See attached C-105, C-144, pit diagrams, closure sampling results. Cover was installed in accordance with 19.15.17.12 &13.
- 3) All free standing liquids will be removed before backfilling the pit and disposed of at an Elm Ridge Disposal Well or at Basin Disposal's evaporation pond.

  Liquid was removed and disposed of at Carson WDW 242 on June 9, 2009. The rig release date for this drill pit is prior to rule 19.15.17, May 22, 2008.
- 4) Due to the land being located on the Navajo Indian Reservation, a deed notice was not applicable.
- 5) Due to confusion associated with the transition period pertaining to 19.15.17, the new 'Pit Rule', a drill pit inspection log was not maintained on this drill pit. Elm Ridge Exploration will comply with the rule and perform drill pit inspections as standard operating procedure as of 7/31/09, and will perform all necessary drill pit inspections after this date.
- 6) The preferred method of closure will be on-site, in place burial, assuming all criteria outlined in 19.15.17.13 (B) are met. The drill pit was buried in-place on May 29, 2009, and a final closure sample was collected by
  - hand auger on July 15, 2009.
- The surface owner has been notified.
   The Navajo Nation was notified on May 26, 2009. See attached notification.
- 8) After approval of this application, Elm Ridge Exploration will notify the OCD verbally, or by other means, at least 72 hours, but not more than one week, prior to any closure operations. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range, well name and number and API number.
  The Oil Conservation Division, Aztec Office, was notified on May 26, 2009. See attached OCD notification.
- 9) All liner above the mud level will be cut and removed after stabilization. Removed liner will be disposed of in a licensed disposal facility.

Liner was cut, removed, and disposed of, after stabilization of the drill pit contents, at San Juan County Regional Landfill, Solid Waste Facility Permit SW 05-30 (P).

10) Elm Ridge Exploration will stabilize or solidify the contents to a bearing capacity sufficient to support the temporary pit's final cover. Elm Ridge Exploration will mix the contents with soil or other material at a mixing ratio of no greater than 3-1, soil or other material: to drill pit contents

Contents of drill pit were mixed at a 3:1 ratio of soil to contents of drill pit.

11) A (5)-point composite sample will be taken of the pit, and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). If the criteria are not met, then all contents will be handled per subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13. (i.e. dig and haul). If a dig and haul is required, then the disposal facility will be Envirotech's Landfarm (NM01-0011).

Initial sampling on 5/14/09 returned results that were above the New Mexico Oil Conservation Division (NMOCD) regulatory standards for chlorides; see attached *Laboratory Results*. The drill pit was separated into two (2) separate sections, and two (2) separate samples were collected. Upon mixture at a 3:1 ratio, the entire contents of the drill pit were mixed together. On July 15, 2009, a post-mixture sample was collected, and the sample returned results below the 1000 mg/kg standard for chlorides.

Sample	Date	Chloride	Benzene (8021)	BTEX (8021)	TPH (418.1)	DRO/GRO (8015)
NMOCD Regulatory Standards	N/A	1,000 mg/kg	0.2 mg/kg	50.0 mg/kg	2,500 mg/kg	500 mg/kg
Contents Pre-Mix #1	5/14/2009	3,850 mg/kg	0.0051 mg/kg	0.114 mg/kg	391 mg/kg	71.3 mg/kg
Contents Pre- Mix #2	5/14/2009	10,600 mg/kg	0.0018 mg/kg	0.0624 mg/kg	2,420 mg/kg	272 mg/kg
Contents Post 3:1 Mix	5/15/2009	10 mg/kg	NS	NS	652 mg/kg	NS

12) After completing solidification and testing, the pit area will be backfilled with compacted, waste free, earthen material. At least four (4) feet of cover will be achieved. The cover will include one (1) foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

Site was backfilled using one (1) foot of topsoil and approximately four (4) feet of non-waste containing earthen material used for cover.

13) Recontouring of the location will match the fit, shape, line, form, and texture of the surrounding area. Re-shaping will control drainage and prevent ponds and erosion. Natural drainages will be unimpeded. Water bars and/or silt traps will be placed where needed to prevent erosion on a large scale. Final recontour will have a uniform appearance with smooth surface, fitting the natural landscape.

The site was recontoured to match the fit, shape, line and form of the surrounding area. It was re-shaped to prevent ponding and erosion, and in such a way that natural drainage was unimpeded. Water bars or silt traps were not needed to prevent erosion. The final recontour has a uniform appearance and a smooth surface, and fits the natural landscape. See attached photos of site recontouring.

Elm Ridge Exploration Badlands Federal COM 12 #3 Closure Date: July 15, 2009 Project No. 03056-0225

14) Notice will be sent to the OCD when the reclaimed area is seeded.

Elm Ridge Exploration will re-seed the area in accordance with BLM re-seeding techniques, as approved by the Navajo Nation.

Submit To Appropriate Two Copies  District I	State of New Mexico Energy, Minerals and Natural Resources				Form C-105 July 17, 2008										
1625 N French Dr District II 1301 W Grand Av					l Conserva					1. WELL API NO. 30-045-33833					
District III 1000 Rio Brazos R District IV	d, Aztec, NM	87410		122	20 South S	t. Fr	ancis D	r.		2 Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN					
1220 S St Francis	Dr , Santa Fe, 1	NM 87505			Santa Fe, 1	٧M	87505			3 State Oil &	& Gas	Lease No	NMN	M-33917	
WELL (	COMPLE	TION OR	RECC	MPL	ETION RE	POI	RT AND	LOG		Section 1	7 ×	, w		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4 Reason for file	ing									5 Lease Nam Badlands Fee			ement Na	ame	
☐ COMPLET	ION REPOR	T (Fill in boxe	es #1 throu	ıgh #31	for State and Fe	e well	s only)			6 Well Num					
C-144 CLOS #33, attach this a	nd the plat to								or/	3					
	WELL 🔲 V	VORKOVER	☐ DEEPI	ENING	□PLUGBAC	к 🗆	DIFFEREN	T RESERV	OIR	OTHER					
8 Name of Opera Elm Ridge Expl										9 OGRID 149052					
10 Address of O PO Box 156, Blo	perator	v Mavico 874	12							11 Pool name	or W	'ildcat			
		,			T =	T					·				
12.Location Surface:	Unit Ltr	Section	Towns	ship	Range	Lot		Feet from t	he	N/S Line	Fee	t from the	E/W	Line	County
BH:		<u> </u>				<del> </del>							+		
13 Date Spudded	d 14 Date	T D Reached			Released	1	16	Date Compl	eted	(Ready to Prod	duce)				and RKB,
18 Total Measur	ed Depth of V	Well .		y <b>22, 20</b> 0 Plug Bac	ck Measured De	pth	20	Was Direct	iona	l Survey Made	7		T, GR, e		ther Logs Run
22 Producing In	terval(s), of th	ns completion	- Top, Bo	ttom, Na	ame							1			
23				CAS	ING REC	OR	D (Reno	ort all str	ing	ps set in w	ell)				
CASING SI	ZE	WEIGHT LE	J/FT		DEPTH SET			LE SIZE		CEMENTIN		CORD	Al	MOUNT	PULLED
				ļ											
24.				LIN	ER RECORD				25	1	ГUВГ	l NG REC	ORD		
SIZE	TOP	В	ОТТОМ		SACKS CEM	IENT	SCREEN		SIZ			EPTH SE		PACK	ER SET
							<u> </u>	-			+				
26 Perforation	record (inter	val, size, and r	iumber)		<u> </u>		27 ACI	D, SHOT,	FR.	ACTURE, CI	EME	NT, SQU	EEZE,	ETC.	
							DEPTH	NTERVAL		AMOUNT A	AND I	KIND MA	TERIA	L USED	
						<b>DD</b>									
Date First Produc	ction	Produ	ection Met	hod (Fle	owing, gas lift, p		ODUC		)	Well Statu	s (Pro	d or Shu	t-in)		
				(	· · · · · · · · · · · · · · · · · · ·	<i>-</i>		. •) [• • [• • • • • • ]			. (		,		
Date of Test	Hours Te	sted	Choke Size	;	Prod'n For Test Period		Oıl - Bbl		Gas	s - MCF	W W	ater - Bbl		Gas - 0	Oil Ratio
Flow Tubing Press	Casing P		Calculated Hour Rate	24-	Oıl - Bbl		Gas -	MCF		Water - Bbl		Oil Gr	avity - A	PI - (Coi	rr)
29 Disposition o	f Gas (Sold, 1	used for fuel, v	ented, etc.,	)	l		<u> </u>				30	Test Witn	essed By	,	
31 List Attachm	ents				<del></del>	-					<u> </u>				<u></u>
32 If a temporary	y pit was used	at the well, at	tach a plat	t with th	e location of the	temp	orary pit A	ttached							
33 If an on-site l	burial was use	ed at the well, i	report the	exact lo	cation of the on-	site b	urial								
I hereby certi	f that the	information	shown	on hoti	Latitude	36.41	10934	and compl		ongitude -108				IAD 192	
		.,,, or mation		]	Printed			-					uge un	u velle	,
Signature 16 Date 16 E-mail Addre	- 22-0°	ີງ ev1@elmrid	lge net		Name <b>Ms.</b>	. Am	y Wacke	y Title	Ad	lministrativ	e Ma	anager			

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## **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

#### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southe	astern New Mexico	Northy	vestern New Mexico
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	Т	T. Entrada	
T. Wolfcamp	Т	T. Wingate_	
T. Penn	T	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

( 3 )			
			OIL OR GAS SANDS OR ZONES
No. 1, from	to	No. 3, from	to
	to		
		WATER SANDS	
Include data on rate of w	vater inflow and elevation to which wate	r rose in hole.	
No. 1, from	to	feet	
	to		
	to		
	LITHOLOGY RECORD		

From	То	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

DISTRICT I P O. Box 1980, Hobbs, N.M. 86241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office

DISTRICT II 811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

it to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

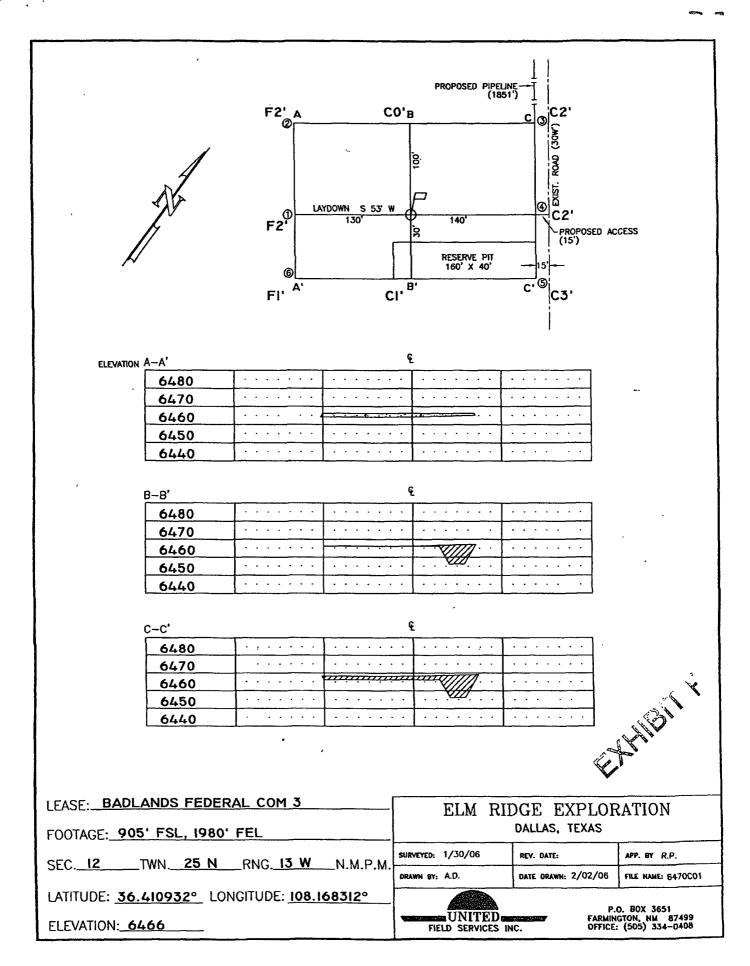
30-045-338	333   5890 <sup>code</sup>	BISTI LOWER-GAເປີບໍ່ຄື	
Property Code		Property Name	Well Number
27297	BADLAN	IDS FEDERAL COM	3
149052		Operator Name	Elevation
143032	ELM RIC	DGE EXPLORATION	6466
	10 a	7	

Surface Location UL or lot no. Section Township Range Lot Idn North/South line Feet from the Feet from the East/West line County 12 1980 SAN JUAN 25 N 13 W 905 **EAST** 0 SOUTH 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line | Feet from the Range East/West line County 13 Joint or Infill Dedicated Acres 14 Consolidation Code 15 Order No. 80 C

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 N 89°45'07' W  2643.96'  N 89°45'07' W  2643.96'  N 89°45'07' W  2643.96'  17 OPERATOR CERTIFICATION I hereby certhy that the information contained herein is the and complete to the best of my knowledge and belief  Signature  BRIAN WOOD  Printed Name  CONSULTANT  Title  JULY 3, 2006  Date  18 SURVEYOR CERTIFICATION  19 SURVEYOR CERTIFICATION  19 SURVEYOR CERTIFICATION  19 SURVEYOR CERTIFICATION  10 In hareby certhy that the well location shown on that pind was platted from field notes of actual surveys made by my order my approximation and that the some is true and cerrect to the best of my behaf  17 OPERATOR CERTIFICATION  I have used complete to the best of my horizontal transported by my order my approximation and that the some is true and cerrect to the best of my behaf  18 SURVEYOR CERTIFICATION  19 SURVEYOR CERTIFICATION  20 SURVEYOR CERTIFICATION  20 SURVEYOR CERTIFICATION  21 SURVEYOR CERTIFICATION  22 SURVEYOR CERTIFICATION  23 SURVEYOR CERTIFICATION  24 SURVEYOR CERTIFICATION  25 SURVEYOR CERTIFICATION  26 SURVEYOR CERTIFICATION  26 SURVEYOR CERTIFICATION  26 SURVEYOR CERTIFICATION  27 SURVEYOR CERTIFICATION  28 SURVEYOR CERTIFICATION  29 SURVEYOR CERTIFICATION  29 SURVEYOR CERTIFICATION  20 SURVEYOR CER		N 89°45'07" W	264 7 061	N 000/ F1078 '''	2447.04		
The and complete to the best of my knowledge and belief    Signature	16	14 0A.49 N. M	2043.90	N 89"45"U/" W	2043.96	17 OPERAT	OR CERTIFICATION
Signature BRIAN WOOD  Printed Name CONSULTANT  Table JULY 3, 2006  Date  18 SURVEYOR CERTIFICATION  A hereby certify that the well location shown on this plat was platted from held notes of actual surveys made by my or under my supervision, and that the some is true and over the best of my belta?  LAT. 36,410932° LONG. 108.168312° NAD 83  LAT. 36,410932° LONG. 108.168312° NAD 83  1980'  3 Signature and South Footboard Surveyor:  CONSULTANT  Table  JULY 3, 2006  Date  1980'  Signature and South Footboard Surveyor:  CONSULTANT  This consultation of the plat was platted from held notes of actual surveys made by my or under my supervision, and that the some is true and over the best of my belta?  LAT. 36,410932° LONG. 108.168312° NAD 83  Signature and South Footboard Surveyor:  CONSULTANT  This consultation of the platter o		•					
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	L	N 89"45"20" W	2643.48'	N 89°45 08" W	2643.93'	Certificate Number	

pit center N 36.410934° W 108.168269° EXHIBITH



FROM:

**JAMES MCDANIEL** 

SENT:

TUESDAY, MAY 26, 2009 4:26 PM

TO:

'NNEPAUIC@FRONTIERNET.NET'

SUBJECT:

**BADLAND FEDERAL COM 12-3 DRILL PIT CLOSURE** 

Mr. Bill Freeman,

Please accept this email as the closure notification to the surface owner for the Badlands Federal COM 12-3 well site located in Unit O, Section 12, Township 25N, Range 13W, San Juan County, New Mexico. API # 30-045-33833. Work is scheduled to begin Friday, May 29<sup>th</sup>. Thank you much!

James P McDaniel **Project Scientist** Envirotech, Inc

505-793-5392

FROM:

**JAMES MCDANIEL** 

SENT:

TUESDAY, MAY 26, 2009 4:17 PM

TO:

'BRANDON.POWELL@STATE.NM.US'

SUBJECT:

**BADLANDS FEDERAL COM 12-3 DRILL PIT CLOSURE** 

Mr. Powell,

Please accept this email as the closure notification for the Badlands Federal COM 12-3 well site located in Unit O, Section 12, Township 25N, Range 13W, San Juan County, New Mexico. The Navajo Nations has been notified as the surface owner. API # 30-045-33833. Work is scheduled to begin Friday, May 29<sup>th</sup>. Thank you much!

James P McDaniel Project Scientist Envirotech, Inc

505-793-5392

## ELM RIDGE EXPLORATION BADLANDS FEDERAL COM 12 #3 SITE RESTORATION PHOTOGRAPHS PROJECT NUMBER: 03056-0225 PHOTOS TAKEN: JULY 15, 2009

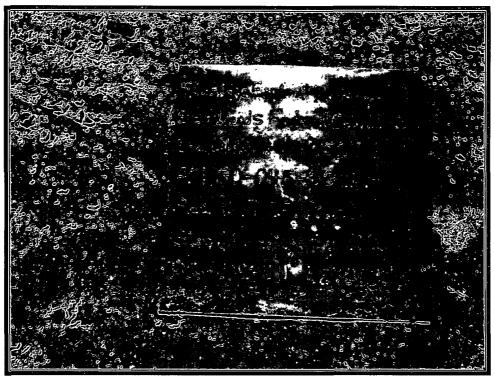


Photo 1: Steel Marker Plate



Photo 2: Overview of Recontoured Area

## ELM RIDGE EXPLORATION BADLANDS FEDERAL COM 12 #3 SITE RESTORATION PHOTOGRAPHS PROJECT NUMBER: 03056-0225

PHOTOS TAKEN: JULY 15, 2009

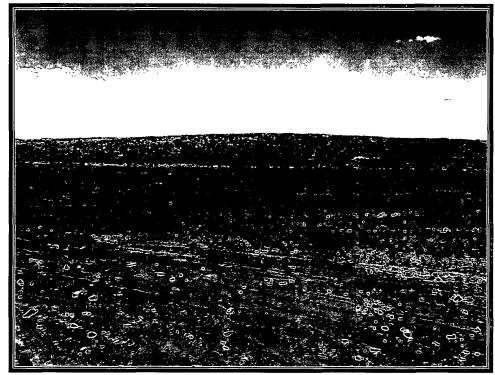


Photo 3: Overview of Site with Recontoured Area

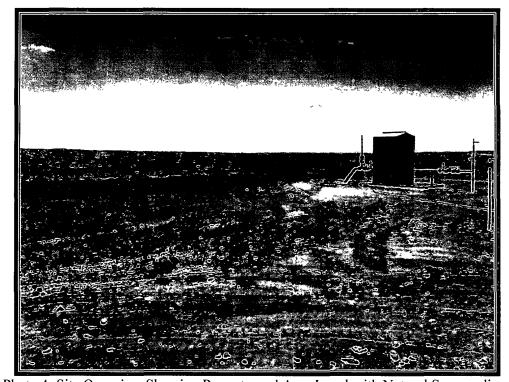


Photo 4: Site Overview Showing Recontoured Area Level with Natural Surroundings



## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #1	Date Reported:	05-19-09
Laboratory Number:	50084	Date Sampled:	05-14-09
Chain of Custody No:	7066	Date Received:	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-15-09
Preservative:	Cool	Date Analyzed:	05-18-09
Condition:	Intact	Analysis Requested.	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7.1	0.4
Diesel Range (C10 - C28)	64.2	0.2
Total Petroleum Hydrocarbons	71.3	0.4

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

**Badlands Federal Com 12-3** 

Analyst

Review



## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #2	Date Reported:	05-19-09
Laboratory Number	50085	Date Sampled:	05-14-09
Chain of Custody No:	7066	Date Received:	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-15 <b>-</b> 09
Preservative:	Cool	Date Analyzed:	05-18-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	16.5	0.4
Diesel Range (C10 - C28)	255	0.2
Total Petroleum Hydrocarbons	272	0.4

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

**Badlands Federal Com 12-3** 

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

## **Quality Assurance Report**

Client:	QA/QC		Project #:		N/A
Sample ID:	05-18-09 QA/QC		Date Reported:		05-19-09
Laboratory Number:	50080		Date Sampled:		N/A
Sample Matrix:	Methylene Chlorid	е	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		05-18-09
Condition:	N/A		Analysis Reques	sted:	TPH
	· Pal Date	I-CaliRF:	C-Cal RF:	% Difference.	Accept Range
Gasoline Range C5 - C10	05-07-07	9.6970E+002	9.7009E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0372E+003	1.0376E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg) Gasoline Range C5 - C10 Discal Bange C40 C28		Concentration ND		Detection Limit 0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	23.8	23.5	1.3%	0 - 30%	
Diesel Range C10 - C28	150	154	2.5%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	23.8	250	270	98.5%	75 - 125%
Diesel Range C10 - C28	150	250	397	99.2%	75 - 125%
•				·-·- · -	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 50080 - 50088 and 50098.

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Mustu Mucelles Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client <sup>.</sup>	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #1	Date Reported:	05-19-09
Laboratory Number:	50084	Date Sampled:	05-14-09
Chain of Custody:	7066	Date Received:	05-14-09
Sample Matrix:	Soil	Date Analyzed:	05-18-09
Preservative:	Cool	Date Extracted:	05-15-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
_		•
Benzene	5.1	0.9
Toluene	31.2	1.0
Ethylbenzene	6.4	1.0
p,m-Xylene	44.4	1.2
o-Xylene	26.9	0.9
Total BTEX	114	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References.

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

**Badlands Federal Com 12-3** 

Analyst

\_Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #2	Date Reported:	05-19-09
Laboratory Number:	50085	Date Sampled:	05-14-09
Chain of Custody:	7066	Date Received:	05-14-09
Sample Matrix:	Soil	Date Analyzed.	05-18-09
Preservative:	Cool	Date Extracted:	05-15-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
_			
Benzene	1.8	0.9	
Toluene	19.4	1.0	
Ethylbenzene	10.0	1.0	
p,m-Xylene	15.4	1.2	
o-Xylene	15.8	0.9	
Total BTEX	62.4		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

**Comments:** 

**Badlands Federal Com 12-3** 

Analyst



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #	N/A
Sample ID <sup>.</sup>	05-18-BT QA/QC	Date Reported	05-19-09
Laboratory Number:	50079	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received.	N/A
Preservative <sup>-</sup>	N/A	Date Analyzed.	05-18-09
Condition <sup>.</sup>	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal/RF:	C-Cal RF: Accept. Rang	%Diff, e 0 - 15%	Blank Conc	Detect. Limit
Benzene	7 0425E+006	7.0567E+006	0.2%	ND	0.1
Toluene	6 5604E+006	6 5735E+006	0.2%	ND	0.1
Ethylbenzene	5 7211E+006	5 7326E+006	0.2%	ND	0.1
p,m-Xylene	1 4888E+007	1 4917E+007	0.2%	ND	0.1
o-Xylene	5 5192E+006	5 5303E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Di	uplicate	%Diff.	Accept Range	Detect Limit
Benzene	8.0	8.2	2.5%	0 - 30%	0.9
Toluene	9.9	10.1	2.0%	0 - 30%	1.0
Ethylbenzene	45.8	46.3	1.1%	0 - 30%	1.0
p,m-Xylene	388	395	2.0%	0 - 30%	1.2
o-Xylene	120	127	5.2%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	8.0	50.0	56.7	97.8%	39 - 150
Toluene	9.9	50.0	57.5	96.0%	46 - 148
Ethylbenzene	45.8	50.0	91.3	95.3%	32 - 160
p,m-Xylene	388	100	482	98.9%	46 - 148
o-Xylene	120	50.0	169	99.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments:

QA/QC for Samples 50079 - 50085, 50087, 50088, and 50098.

Analyst

Review

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #1	Date Reported:	05-20-09
Laboratory Number:	50084	Date Sampled:	05-14-09
Chain of Custody No:	7066	Date Received:	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-18-09
Preservative:	Cool	Date Analyzed.	05-18-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

391

10.3

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Badlands Federal Com 12-3.

Analyst

Mustum Waltles

### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ElmRidge Resources	Project #:	03056-0225
Sample ID:	Pit #2	Date Reported:	05-20-09
Laboratory Number:	50085	Date Sampled:	05-14-09
Chain of Custody No:	7066	Date Received.	05-14-09
Sample Matrix:	Soil	Date Extracted:	05-18-09
Preservative:	Cool	Date Analyzed:	05-18-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

2,420

10.3

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments: Badlands Federal Com 12-3.

Analyst

/ Mustur m Wceter



## **EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID.

QA/QC

Date Reported: Date Sampled: 05-19-09

Laboratory Number:

05-18-TPH.QA/QC 50100

Sample Matrix

N/A

Preservative:

Freon-113

Date Analyzed:

05-18-09

Condition:

N/A N/A Date Extracted: Analysis Needed: 05-18-09 TPH

Calibration

I-Cal Date:

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference

Accept Range

05-01-09

05-18-09

1,620

1,720

6.2%

+/- 10%

Blank Conc. (mg/Kg)

**TPH** 

Concentration ND

Detection Limit 10.3

Duplicate Conc. (mg/Kg)

Sample

Duplicate

% Difference

Accept Range

**TPH** 

20.7

23.3

12.6%

+/- 30%

Spike Conc. (mg/Kg) Sample Spike Added Spike Result MR Recovery TPH

20.7

2,000

1,780

88.1%

Accept Range 80 - 120%

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 50080 - 50085, 50090 - 50092 and 50100.

Christian Weeters

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#### Chloride

Project #: 03056-0225 ElmRidge Resources Client: Date Reported: 05-20-09 Sample ID: Pit #1 Lab ID#: 50084 Date Sampled: 05-14-09 Date Received: 05-14-09 Sample Matrix: Soil 05-19-09 Date Analyzed: Preservative: Cool Condition: Intact Chain of Custody: 7066

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

3,850

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Badlands Federal Com 12-3.

Analyst

Mister Moeter Review



#### Chloride

Project #: 03056-0225 Client<sup>1</sup> ElmRidge Resources Sample ID Pit #2 Date Reported: 05-20-09 Lab ID#: 50085 Date Sampled: 05-14-09 Date Received: 05-14-09 Sample Matrix: Soil Date Analyzed: 05-19-09 Preservative: Cool Condition Intact Chain of Custody: 7066

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

10,600

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983 Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992

Comments:

Badlands Federal Com 12-3.

Analyst

Mustre M Wolles Review

## CHAIN OF CUSTODY RECORD

Client: Project Name / Location:															V V I V I .	vele	/ PAR		repe						
ElmRidge Client Address:	RUSON	ly cos F	Badlana:	s Fe	deval	( OV	m I	2-	3					;	MINAL	1010	<i>/</i>	AWE	LNS						
Client Address: )		S	ampler Name:	· · · · ·		··• (				2)	21)	6													
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Client Phone No.:		C	lient No.:	_						pou	tho	pou	RCRA 8 Metals	HCHA 8 Metal Cation / Anion			Ŧ		=	ш				8	tact
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## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Elmridge	Project #:	03056-0225
Sample ID:	Drill Pit	Date Reported:	07-16-09
Laboratory Number:	50883 <sub>.</sub>	Date Sampled:	07-15-09
Chain of Custody No:	7435	Date Received:	07-15-09
Sample Matrix:	Soil	Date Extracted:	07-16-09
Preservative:	Cool	Date Analyzed:	07-16-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

652

11.9

ND = Parameter not detected at the stated detection limit.

References.

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Badlands Federal #12-3.

Analyst



## **EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS** QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported

07-16-09

Laboratory Number:

07-16-TPH.QA/QC 50874

Date Sampled:

N/A

Sample Matrix: Preservative:

Freon-113

Date Analyzed Date Extracted:

07-16-09 07-16-09

Condition:

N/A N/A

Analysis Needed.

**TPH** 

Calibration I-Cal Date

06-26-09

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference Accept. Range

07-16-09

1,480

1,490

0.7%

+/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

**TPH** 

ND

11.9

Duplicate Conc. (mg/Kg)

Sample

Duplicate:

% Difference Accept Range

**TPH** 

8,890

9,130

2.7%

+/- 30%

Spike Conc. (mg/Kg) **TPH** 

Sample 8,890

Spike Added Spike Result % Recovery Accept Range 2,000

10,100

92.7%

80 - 120%

ND = Parameter not detected at the stated detection limit.

References<sup>1</sup>

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978

Comments:

QA/QC for Samples 50874, 50875, and 50883.

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#### Chloride

Client: Elmridge Project #: 03056-0225 Drill Pit Sample ID: Date Reported: 07-16-09 Lab ID#: 50883 07-15-09 Date Sampled: 07-15-09 Sample Matrix: Soil Date Received: Preservative: Cool Date Analyzed: 07-16-09 Condition: Intact Chain of Custody: 7435

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

10

Reference.

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

**Badlands Federal #12-3** 

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

## CHAIN OF CUSTODY RECORD

7435

Client:  Client Address:  Client Phone No.:  Project Name / Location:  BACLA-AS Feder Att # 12 - 3  Sampler Name:  Client No.:  Client														ANAL	YSIS	PAR	AMET	TERS							
Client Address:			Sampler Name:	reo	<u> </u>	12-3				£	<u> </u>	T	Ţ										-		
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Client Phone No.:			Client No.:	Rid.	0305	6-022	5		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	with H/F	with H/F		TPH (418.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sampl Time	Lab No.	5	ample Matrix	No./volume	Prese		TPH (I	втех	000	RCRA	Cation	泛	TCLP	PAH	ТРН (	CHLORIDE				Sampl	Sampl		
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