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
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: BISTI GALLUP 18 #6 API Number: 30-045-33803 OCD Permit Number: U/L or Qtr/Qtr F Section 18 Township 25 N Range 12 W County: SAN JUAN Center of Proposed Design: Latitude 36.402162* N Longitude 108.155982* W NAD: 1927 \(\times\) 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Address: P. O. BOX 156, BLOOMFIELD, NM 87413
Facility or well name: BISTI GALLUP 18 #6
API Number: 30-045-33803 OCD Permit Number:
U/L or Qtr/Qtr F Section 18 Township 25 N Range 12 W County: SAN JUAN
Center of Proposed Design: Latitude 36.402162° N Longitude 108.155982° W NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15 17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness 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) ☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other ☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other Liner Seams: ☐ Welded ☐ Factory ☐ Other ☐ Factory ☐ Other
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:
□ 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 mil
S
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hospital, 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 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" 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 Burcau 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 accep material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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.	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							
Within 500 fect 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 19.15.17.10 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:
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 (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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 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 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 Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Usste 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.D Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n facilities are required.	NMAC) nore than two						
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 occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) \(\sum \) 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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate districtions of acceptable sour considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif 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 ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	☐ Yes ☑ No ☐ 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; Data obtained from nearby wells	Yes □ No □ NA 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	☐ 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 \$00 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 plan 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 APL. 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 - 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. 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. Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC.	D Page 9 (Exhibit K) 15.17.11 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: <u>11-29-08</u>							
e-mail address: brian@permitswest.com Telephone: (505) 466-8120							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)							
OCD Representative Signature: Brandon Samel Approval Date: 12-11-08							
Title: Envirolspec 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: May 26, 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) No							
Required 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. <u>Closure Report Attachment Checklist</u> : 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) See affactor Proof of Deed Notice (required for on-site closure) NA							
M Plot Plan (for on-site closures and temporary pits) See affactor							
Confirmation Sampling Analytical Results (if applicable) See a flac ho Waste Material Sampling Analytical Results (required for on-site closure) See a flac ho Discourse See See a flac ho							
Li Disposal Facility Name and Permit Number 1071,							
Soil Backfilling and Cover Installation See a Hacker Re-vegetation Application Rates and Seeding Technique See a Hacker							
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.402162 Longitude -108.155982 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): Any Markey Title: Administrative Manager							
Signature:							
e-mail address: Telephone:							
Accorded 22 1 22/1 NIMOCID 11/2/09							

Approved Bel Dell Nmoco 11/2/09

Elm Ridge Exploration Bisti Gallup 18-6 Closure Date: May 26, 2009 Project No. 03056-0239

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 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-25446, Bisti Gallup 18-6, UL F, Sec. 18, Twn. 25N, Rng. 12W, 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 May 12, 2009. The rig release date for this drill pit is prior to rule 19.15.17, April 26, 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 met all requirements, and was buried in-place on May 26, 2009.
- 7) The surface owner has been notified.
 The Navajo Nation was notified on May 22, 2009. See attached BLM 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 22, 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 after stabilization of the drill pit contents at San Juan County Regional Landfill, Solid Waste Facility Permit SW 05-30 (P).

Closure Date: May 26, 2009 Project No. 03056-0239

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 five (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 5/22/09, 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	922 mg/kg	0.0237 mg/kg	0.0947 mg/kg	750 mg/kg	73.1 mg/kg
Contents Pre- Mix #2	5/14/2009	3,750 mg/kg	0.0038 mg/kg	0.106 mg/kg	543 mg/kg	131 mg/kg
Contents Post 3:1 Mix	5/22/2009	40 mg/kg	NS	NS	NS	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 Bisti Gallup 18-6 Closure Date: May 26, 2009 Project No. 03056-0239

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

Elm Ridge Exploration will comply with the BLM's re-seeding requirements in this area in accordance with the federal rules and regulations as allowed by the BLM/OCD Memorandum of Understanding. Re-seeding was scheduled to begin on July 7, 2009 per the BLM.

Submit To Appropr Two Copies	iate District Of	ffice	State of New Mexico					Form C-105							
District I					July 17, 2008 1. WELL API NO. 30-045-33803										
District II 1301 W Grand Ave									1. WELL API NO. 30-045-33803						
<u>District III</u> 1000 Rio Brazos Ro					i Conserva 20 South S					2 Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN					
District IV 1220 S St Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505								☐ FEB		ED/IND	IAN				
			<u> </u>							3 State Oil &					
4 Reason for file		HON OF	RECC	MPL	ETION RE	POF	RIANL	LOG	-	5 Lease Nam			ement Na		
		OT (C.U b	#1 41	-L #21	f Ct-t 1 F-	11	1)			Bisti Gallup I	8				
COMPLETI		•		_			• /			6 Well Numb	oer.				
Z C-144 CLOS #33, attach this ar 7 Type of Comp	nd the plat to								l/or						
■ NEW V	VELL 🔲 W	VORKOVER	☐ DEEPI	ENING	□PLUGBAC	K 🗆 1	DIFFERE	T RESERV	/OIR				_		
8 Name of Opera Elm Ridge Explo										9 OGRID 149052					
10 Address of Or	perator	v Mauiao 974	(12							11 Pool name	or W	ıldcat			
PO Box 156, Blo		w Mexico, 874													
12.Location Surface:	Unit Ltr	Section	Towns	hip	Range	Lot		Feet from	the	N/S Line	Feet	from the	E/W	Line	County
BH:		<u></u>	 		ļ	-					_		_		
13 Date Spudded	14 Date	T D Reached	15 [Date Rig	Released	<u> </u>	16	Date Comp	leted	(Ready to Proc	luce)		7 Eleva	tions (DF	and RKB,
1	-		Apr	il 26, 20	08								RT, GR, e	etc)	
18 Total Measure	ed Depth of V	Well	19 1	lug Bac	ck Measured De	pth	20	Was Direc	tiona	l Survey Made	,	21 Ty	pe Electr	ic and Ot	ther Logs Run
22 Producing Inte	erval(s), of th	nis completion	- Top, Bot	tom, Na	ime	•	l.								
23				CAS	ING REC	ORI	D (Rep	ort all st	ring	gs set in w	ell)				
CASING SIZ	ZE	WEIGHT LI	3 /FT		DEPTH SET		НС	LE SIZE		CEMENTIN	G RE	CORD	Al	MOUNT	PULLED
										<u> </u>					
					·										
24.				LIN	ER RECORD				25		UBII	NG REC	CORD		
SIZE	ТОР	В	OTTOM		SACKS CEM	IENT	SCREEN	<u> </u>	SIZ			EPTH SE		PACK	ER SET
									-		-				
26 Perforation	record (inter	val, size, and	number)	-			27 AC	ID, SHOT,	FR.	ACTURE, CE	MEN	IT, SQU	JEEZE,	ETC.	
							DEPTH	INTERVAL	<u>-</u>	AMOUNT A	ND K	IND MA	ATERIA	L USED	
									_	1					
Date First Produc	tion	Drod	uation Mat	had (El	owing, gas lift, j		ODUC'		.1	Well Status	/Dua	d au Cha			
Date Flist Floude	tion	1100	action with	nou (rit	owing, gas iiji, p	ли тріп,	g - Size un	и гуре ритр	"	wen status	5 (1 70)	a or sna	u-in)		
Date of Test	Hours Te	ested	Choke Size		Prod'n For Test Period		Oıl - Bbl		Ga:	s - MCF	w	ater - Bb	ıl	Gas - 0	Oil Ratio
Flow Tubing Press	Casing Pr	I	Calculated Hour Rate	24-	Oıl - Bbl	-,,	Gas	- MCF	<u> </u>	Water - Bbl		Oil Gi	avity - A	Pl - (Cor	<u>r)</u>
29 Disposition of	F Gas (Sold, i	used for fuel, v	ented, etc.)	l	-				<u> </u>	30 7	est Witr	nessed By	, 	
31 List Attachme	ents						-· .								
32 If a temporary	pit was used	at the well, a	ttach a pla	with th	e location of the	e tempo	orary pit A	ttached							
33 If an on-site b	·	/	•			•	<i>-</i> 1								
	_1 _	//			Latitude	36.40	2162		L	ongitude -108	15598	82		IAD 192	
I hereby certif	y that the	information	ı shown e		<i>h sides of thi.</i> Printed	s forn	is true	and comp	lete	to the best o	of my	knowle	edge an	d beliej	f
Signature J	1-22-6	วร				. Amy	y Macke	y Title	Ad	lministrativ	e Ma	nager			
Date 10 E-mail Addre	ss amacke	-	dge.net												

•

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	Northwestern 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	T.	T. Wingate					
T. Penn	T.	T. Chinle					
T. Cisco (Bough C)	Т	T. Permian					

			OIL OR GAS SANDS OR ZONE
No. 1, from	to	No. 3, from	toto
		No. 4, from	
	IMPOF	RTANT WATER SANDS	
Include data on rate of w	ater inflow and elevation to w	hich water rose in hole.	
No. 1, from	to	feet	• • • • • • • • • • • • • • • • • • • •
No. 2, from	to	feet	
The state of the s		feet	
		CODD	

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
				į			
1	1	1	1	1	1	1	1

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994 Instructions on back

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

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

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

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

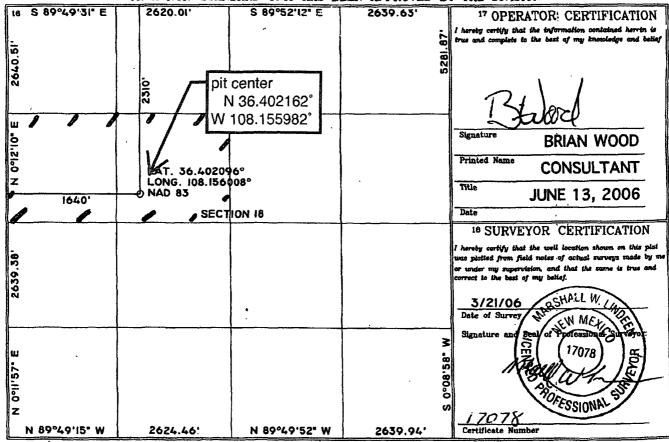
2040 South Pacheco, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLATGE COMP. Pool Code API Number Pool Name 0-045-33803 **BISTI LOWER-GALLUP** 5890 Property Code ⁶Property Name 6343 . **BISTI GALLUP 18** 6 Klevation OGRID No. Operator Name 149052 ELM RIDGE EXPLORATION 6496

10 Surface Location UL or lot no. Lot Idn North/South line Rast/West line Section Township Feet from the Feet from the County Range 1640 WEST SAN JUAN F 25 N 12 W 2310 NORTH 18 " Bottom Hole Location If Different From Surface UL or lot no. Section Township Feet from the North/South line East/West line County Dedicated Acres a Joint or Infill " Consolidation Code 15 Order No. 79.48

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



* PROPOSED LOCATION IS 339' EAST OF WEST LINE OF SE/4 NW/4

EXHIBIT H

INOTIFY NOTIFY
NEW MEXICO ONE-CALL
BEFORE COMMENCING
EXCAVATION
(800) 321-2637 B F6' ⁻σ_{C0,} F8' A (2) LAYDOWN S 27 W FI' 0 140 130 RESERVE PIT 160' X 40' 6 CO, Y. B, C2, SCALE: 1"=100" 6510 6500 6490 6480 . . . : - . . . 6470 Ę 8-8' 6510 6500 6490 6480 6470 C-C' 6510 6500 6490 6480 6470 CROSS SECTIONS HORIZONTAL: 1"=100' VERTICAL: 1"=10' ELM RIDGE EXPLORATION LEASE: BISTI GALLUP 18 #6 DALLAS, TEXAS FOOTAGE: 2310' FNL, 1640' FWL

SEC. 18 TWN. 25 N RNG. 12 W N.M.P.M LATITUDE: 36.402096° LONGITUDE: 108.156008°

ELEVATION: 6496

SURVEYED: 3/21/06	REV. DATE:	APP. BY R.P.
DRAWN BY: A.D.	DATE DRAWN: 3/29/06	FILE NAME: 6630C01



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408

FROM:

JAMES MCDANIEL

SENT: TO: FRIDAY, MAY 22, 2009 1:30 PM 'NNEPAUIC@FRONTIERNET.NET'

SUBJECT:

BISTI GALLUP 18 #6 DRILL PIT CLOSURE

Mr. Bill Freeman,

Please accept this letter as a notification to the surface owner, the Navajo Nation, to perform drill pit closure activities at the Elm Ridge Exploration, Bisti Gallup 18-6 well site, located in Unit F, Section 18, Township 25N, Range 12W, San Juan County, New Mexico. API # 30-045-33803. Closure activities are scheduled to begin on Tuesday morning, May 26, 2009. Thank you for your time.

James P McDaniel Project Scientist Envirotech, Inc

505-793-5392

FROM:

JAMES MCDANIEL

SENT:

FRIDAY, MAY 22, 2009 9:45 AM

TO:

'BRANDON.POWELL@STATE.NM.US'

SUBJECT:

BISTI GALLUP 18-6 DRILL PIT CLOSURE

Mr. Powell,

Please accept this notice as the OCD notification for closure activities to be performed at the Bisti Gallup 18-6 Drill Pit located in Unit F, Section 18, Township 25N, Range 12W, San Juan County, New Mexico. API # 30-045-33803. Closure activities will begin Tuesday morning, May 26, 2009. Thanks you very much.

James P McDaniel Project Scientist Envirotech, Inc

505-793-5392

ELM RIDGE EXPLORATION BISTI GALLUP 18-6 SITE RESTORATION PHOTOGRAPHS JOB NUMBER: 03056-0239

PHOTOS TAKEN: JULY 15, 2009



Photo 1: Steel Marker Plate

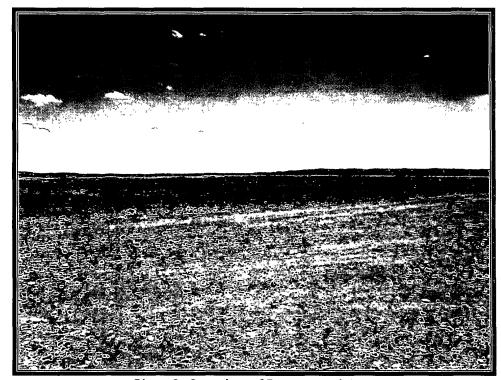


Photo 2: Overview of Recontoured Area

ELM RIDGE EXPLORATION BISTI GALLUP 18-6 SITE RESTORATION PHOTOGRAPHS JOB NUMBER: 03056-0239

PHOTOS TAKEN: JULY 15, 2009

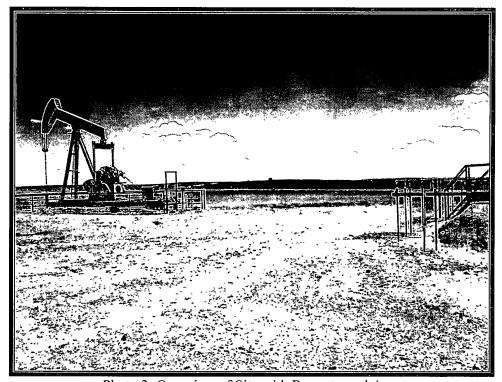


Photo 3: Overview of Site with Recontoured Area



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 #:	03056-0239
Sample ID:	Pit #1	Date Reported:	05-19-09
Laboratory Number:	50082	Date Sampled:	05-14-09
Chain of Custody No:	7067	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)	4.2	0.4
Diesel Range (C10 - C28)	68.9	0.2
Total Petroleum Hydrocarbons	73.1	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:

Bisti Gallup 18-6

Analyst

Anuthun Wasters 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

Client.	ElmRidge Resources	Project #	03056-0239
Sample ID:	Pit #2	Date Reported:	05-19-09
Laboratory Number:	50083	Date Sampled:	05-14-09
Chain of Custody No:	7067	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)	8.5	0.4	
Diesel Range (C10 - C28)	122	0.2	
Total Petroleum Hydrocarbons	131	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:

Bisti Gallup 18-6

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/0	QC	Date Reported:		05-19-09
Laboratory Number:	50080		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		05-18-09
Condition:	N/A		Analysis Reques	ted:	TPH
			,		
	I-Cal Date	I-Cal RF:	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)		Concentration		Detection Lim	iť,
Gasoline Range C5 - C10	. 17" 188 200000000 11 10770770 1 1 1 1 1 1 1 1 1 1	ND	pays,	0.2	*
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	list.
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



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ElmRidge Resources	Project #:	03056-0239
Sample ID:	Pit #1	Date Reported:	05-19-09
Laboratory Number:	50082	Date Sampled.	05-14-09
Chain of Custody:	7067	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

	Det.		
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	23.7	0.9	
Toluene	20.8	1.0	
Ethylbenzene	12.3	1.0	
p,m-Xylene	20.8	1.2	
o-Xylene	17.1	0.9	
Total BTEX	94.7		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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:

Bisti Gallup 18-6

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ElmRidge Resources	Project #:	03056-0239
Sample ID:	Pit #2	Date Reported:	05-19-09
Laboratory Number:	50083	Date Sampled:	05-14-09
Chain of Custody.	7067	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	3.8	0.9
Toluene	24.6	1.0
Ethylbenzene	15.8	1.0
p,m-Xylene	36.0	1.2
o-Xylene	26.2	0.9
Total BTEX	106	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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:

Bisti Gallup 18-6

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client ⁻	N/A	Project #:	N/A
Sample ID.	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.	N/A	Date Analyzed	05-18-09
Condition	N/A	Analysis	BTEX

Calibration and Detection Limits (ug/L)	-Cal RF:	C-Cal RF: Accept. Rang	%Diff. je 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 Gonc, (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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ElmRidge Resources	Project #:	03056-0239
Sample ID:	Pit #1	Date Reported:	05-20-09
Laboratory Number:	50082	Date Sampled:	05-14-09
Chain of Custody No:	7067	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

750

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:

Bisti Gallup 18-6.

Analyst

Mustle m Welter Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ElmRidge Resources	Project #	03056-0239
Sample ID:	Pit #2	Date Reported:	05-20-09
Laboratory Number ⁻	50083	Date Sampled:	05-14-09
Chain of Custody No:	7067	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

543

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:

Bisti Gallup 18-6.

Analyst

Mustum Woltes Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

05-19-09

Laboratory Number:

05-18-TPH.QA/QC 50100

Date Sampled:

N/A

TPH

Sample Matrix:

Freon-113

Date Analyzed:

05-18-09

Preservative: Condition:

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

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

Detection Limit

10.3

Duplicate Conc. (mg/Kg)

TPH

Sample 20.7

Duplicate ` 23.3

12.6%

% Difference Accept. Range +/- 30%

Spike Conc. (mg/Kg) Sample

Spike Added Spike Result % Recovery Accept Range

TPH

20.7

2,000

1,780

88.1%

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.

'Mister M Welles Review



Chloride

03056-0239 Elm Ridge Project #: Client: Sample ID: **Drill Pit** Date Reported: 05-28-09 Lab ID#: 50218 Date Sampled: 05-22-09 Date Received: 05-26-09 Sample Matrix: Soil 05-28-09 Preservative: Cool Date Analyzed: Chain of Custody: 7129 Condition: Intact

Parameter

Concentration (mg/Kg)

Total Chloride

40

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:

Bisti Gallup 18-6.

Analyst

/ Mustur m Walters
Review

CHAIN OF CUSTODY RECORD

7129

Client: Project Name / Location:														ANAL	YSIS	/ PAR	AME	ΓERS						
ELMEIDUE			BISTI GI	Bisti Hame 18-4										·	, (, (, ,),	0,0	, . ,	., (,,,,_						
Client Address:			Sampler Name:	ampler Name:				-	(21) (21) (30)															
			TEB ENA	uf						801	98 p	826	<u>s</u>	_										
Client Phone No.:			Client No.:							рос	ş	hod	leta	nioin		È		F	ш				8	tact
			03056 -	0230	1					Met] Se	Met	8	/ A		with		418	문				e C	e P
Sample No./ Identification	Sample Date	Sample	Lab No.	1	ample Matrix	No./Volu of Containe	me P	reserv	ative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	P.C.	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Daire Pir	5/22/81		50218	Solid	Sludge Aqueous	Containe		7	100		Ш		<u> </u>	J		-			X				<i>\</i>	1
Disco (11			30218	Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
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Relinquished by: (Sign					Date	7:24			eive	d by:	(Sign	ature))	·	73_						Da	ate 22/09	Tir フ	me :26
Relinquished by: (Sign	nature)			<u></u>	13-10-				eive	d by:	(Sign	ature)				•						757		
Relinquished by: (Sigr	nature)							Rec	eive	d by:	(Sign	ature))											
						en		*		•			h			-								



5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



Chloride

Client: ElmRidge Resources Project # 03056-0239 Sample ID: Pit #1 Date Reported. 05-20-09 Lab ID#: 50082 Date Sampled: 05-14-09 Sample Matrix: Soil Date Received: 05-14-09 Preservative: Cool Date Analyzed: 05-19-09 Condition: Intact Chain of Custody: 7067

Parameter

Concentration (mg/Kg)

Total Chloride

922

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:

Bisti Gallup 18-6.

Analyst

(hustre m Weeler Review



Chloride

Client^{*} ElmRidge Resources Project #: 03056-0239 Sample ID. Pit #2 Date Reported: 05-20-09 50082 Date Sampled: 05-14-09 Lab ID#: Date Received: 05-14-09 Sample Matrix: Soil 05-19-09 Preservative: Cool Date Analyzed: Condition: Intact Chain of Custody: 7067

Parameter Concentration (mg/Kg)

Total Chloride

3,750

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: Bisti Gallup 18-6.

Analyst

Muster m Weeles Review

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